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4. TYPE OF	WELL	Oil We		oalbed Methan						5.	. UNIT or C	COMMUNITI	ZATION AGRE	EMENT N	IAME
6. NAME OI	FOPERATOR			E&P COMPANY						7.	. OPERATO	OR PHONE	713 997-5038	3	
8. ADDRES	S OF OPERATOR	100	1 Louisiana	a, Houston, TX	K, 77002					9.	. OPERAT	OR E-MAIL maria.ç	jomez@epene	rgy.com	
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27. ELEVA	ΓΙΟΝ - GROUND Ι	EVEL 5804		28. BON	D NUMBER	400J	U0708						NG WATER / VAL NUMBER Duchesne City		ABLE
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SIGNATUR	RE			DATE 02/12/2	2015				ı	EMAI	L maria.go	mez@epen	ergy.com		
	er assigned 135326800	00		APPROVAL					Perm	QQ nit N	SYLV Manager				

Karren Trust 4-30C4 Sec. 30, T3S, R4W DUCHESNE COUNTY, UT

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV) Green River (GRTN1) Mahogany Bench L. Green River Wasatch T.D. (Permit)	3,673' TVD 4,361' TVD 5,228' TVD 6,521' TVD 8,381' TVD 11,600' TVD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

Substance	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV) Green River (GRTN1)	3,673' MD / TVD 4,361' MD / TVD
	Mahogany Bench	5,228' MD / TVD
Oil	L. Green River	6,521' MD / TVD
Oil	Wasatch	8,381' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter Stack on structural pipe from 40' MD/TVD to 2,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,000' MD/TVD to 8,450' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,450' MD/TVD to TD (11,600' MD /TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

We have pre-set numerous wells around the proposed location and had no issues. The closest well is the Moon 3-30C4 which we Spud September of 2014 which is in the same section & less than ½ mile away. We got 60 bbls of cement back on the surface job & had full returns on the intermediate and liner cement jobs. I will design this proposed well the same way we designed the Moon 3-30C4.

There are 19 water wells within 10,000' of the proposed location but none of them are within 0.75 miles. This wellbore design is the same as the Moon 3-30C4.

There is 1 SWD well within 2.5 miles of the proposed location but none of them are within 1 mile. No pressure communication is expected to be seen, however it is important to be aware of them.

The Blue Bench 1-13C5 SWD is 11,418' or 2.16 miles to the North / North West of the proposed location. It is owned by Intercept Energy & is an active SWD well. It is injecting into the Upper/Middle Green River & Upper-most Lower Green River. The injection interval is from 4106'-7528'. The injection rate is now ~500 bbls/day @ 500-600 psi (I just got off the phone with Keith who is with Intercept Energy). The pressure dissipates to 300 psi while down on maintenance. Using 300 psi, the EMW @ 4106' is 10.01 ppg. We should not see any pressure from this well since it is Due South of the proposed location. We have drilled as close as 0.98 miles to this SWD well (that well is between the SWD & this proposed location) & on fracture orientation and have not seen any pressure while drilling. If any pressure communication is seen, we can easily weight up to 10.1 ppg MW to control the wellbore. Our intermediate cement design will be 12.5 ppg lead & 13 ppg tail. We will also pump at least a 11.0 ppg weight spacer. We will also bring the cement up to surface instead of 500' into the shoe.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nippled up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 2,000' TD
- B) Mud logger with gas monitor 2,000' to TD (11,600' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.3 – 10.2
Production	WBM	10.5 – 12.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. Evaluation Program:

Logs:

Mud Log: 2,000' MD/TVD – TD (11,600' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 11,600' TVD equals approximately 7,238 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,686 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,450' TVD = 6,760 psi

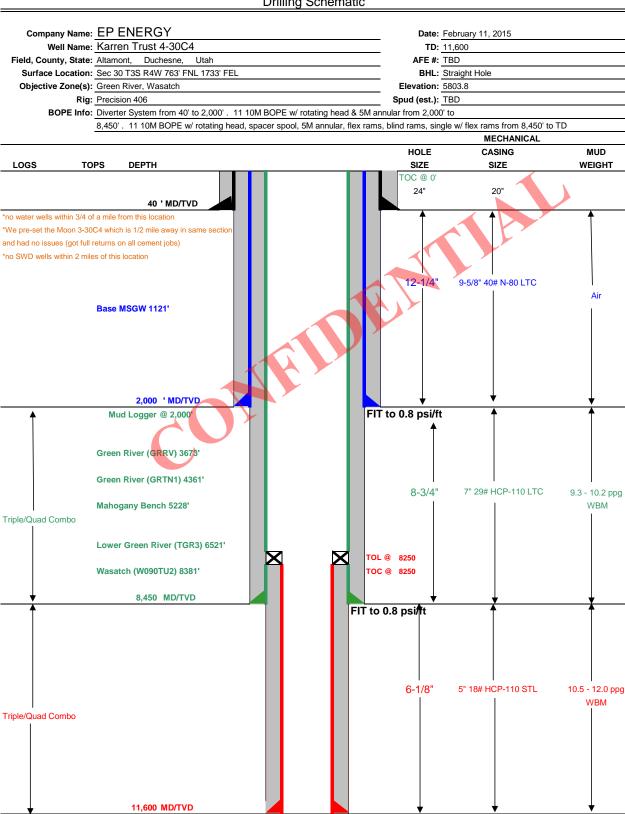
BOPE and casing design will be based on the lesser of the two MASPs which is 4,686 psi.

8. OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.

Page 1/2



Drilling Schematic



Page 2/2

DRILLING PROGRAM

CASING PROGRAM	SIZE	INTE	RVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
SURFACE	9-5/8"	0	2000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8450	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	8250	11600	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRA	AM	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
	Lead	1,500	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	412	100%	12.0 ppg	2.36
SURFACE	Tail	500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	6,000	EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake	590	35%	12.5 ppg	1.91
INTERWEDIATE	Tail	2,450	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E- Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	298	30%	13.0 ppg	1.64
PRODUCTION LINER		3,350	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL +0.3% Halad 344 + 0.3% Halad 413 + 5 lb/sk Silicalite + 20% SSA-1 + 2% Bentonite + 0.7% HR-5	199	30%	14.2 ppg	1.52

FLOAT EQUIPMENT & CE	INTRALIZERS
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install
SURFACE	bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	Halliburton's PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock
INTERWEDIATE	all float equipment. Maker joint at +/- 6,500'.
LINER	Float shoe, 1 joint, float collar,1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S):	Brad MacAfee	713-997-6383	
MANAGER:	Bob Dodd		



KARREN TRUST 4-30C4 WELL LOCATION: NW/NE SECTION 30, T.3S, R.4W. U.S.B.&M. DUCHESNE COUNTY, UTAH

PROCEED IN A NORTHERLY DIRECTION FROM DUCHESNE, UTAH ALONG STATE HIGHWAY 87 APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ACCESS ROAD TO THE EAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED ACCESS ROAD TO THE SOUTH; TURN RIGHT AND FOLLOW ROAD FLAGS IN A SOUTHERLY THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3,651 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 3.6 MILES.



EP ENERGY

KARREN TRUST 4-30C4

WELL LOCATION: NW/NE SECTION 30, T.3S, R.4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



Photo: View of location stake

Camera Angle: Southwesterly



Photo: View from beginning of proposed access

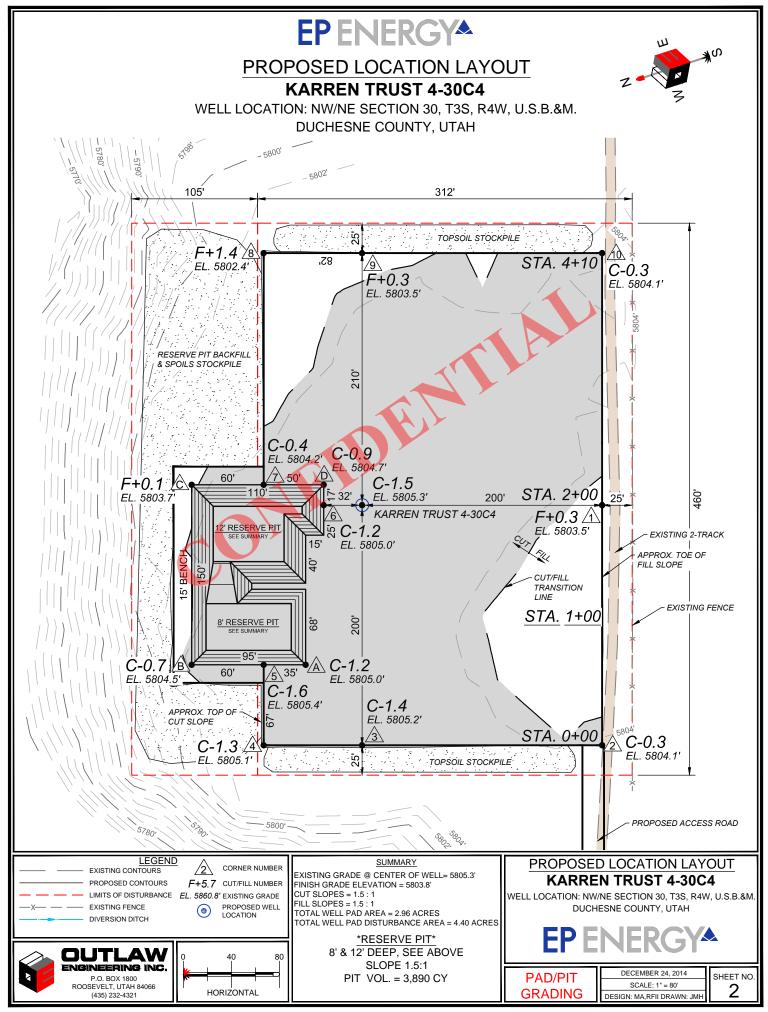
Camera Angle: Southerly

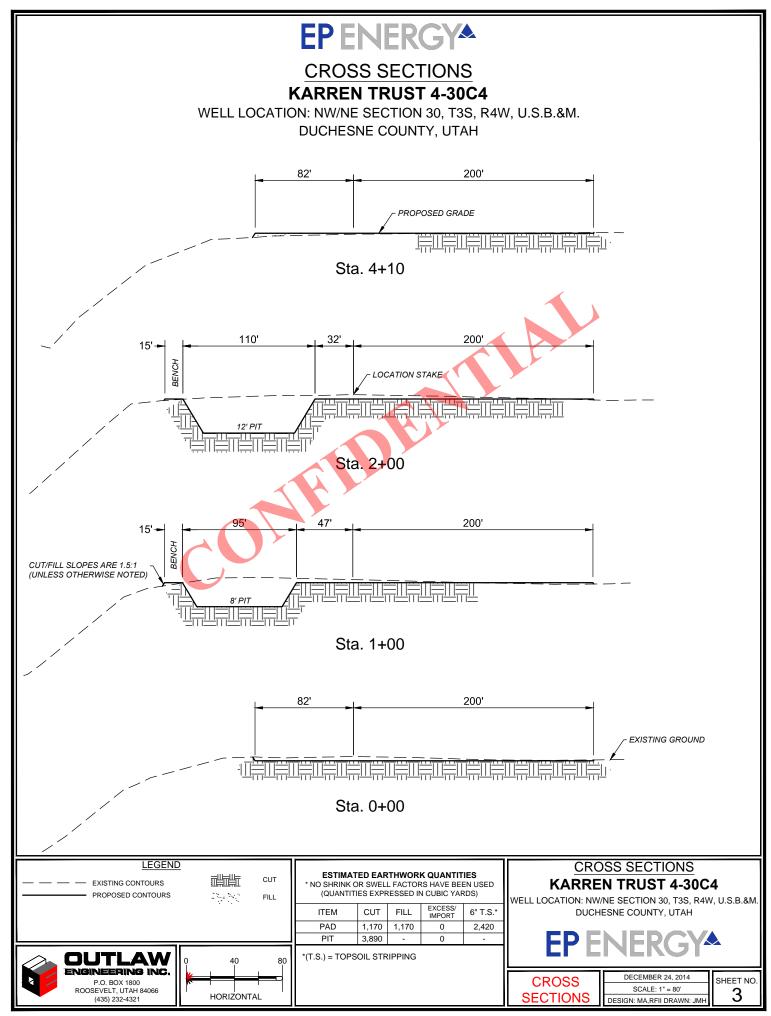


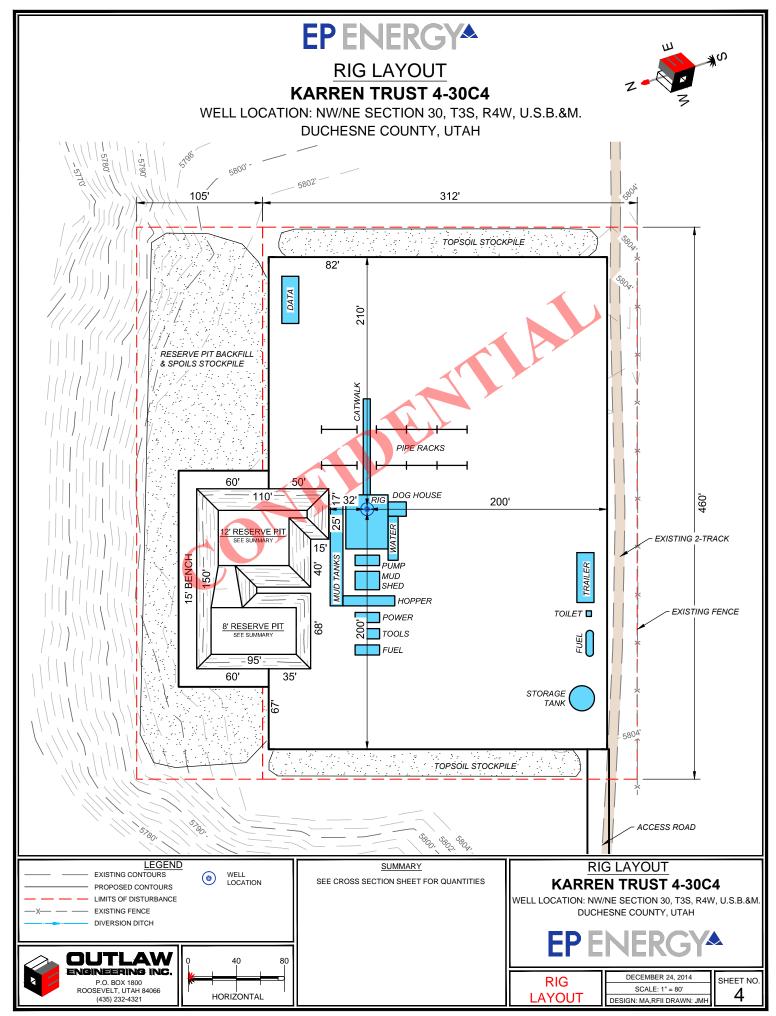
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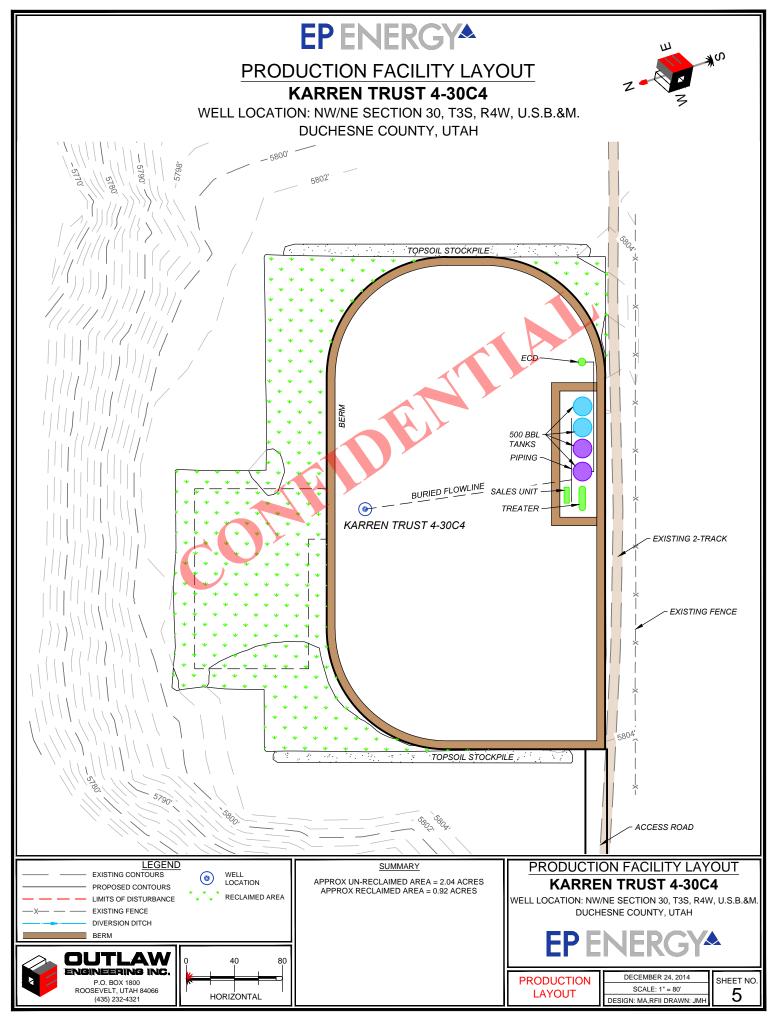


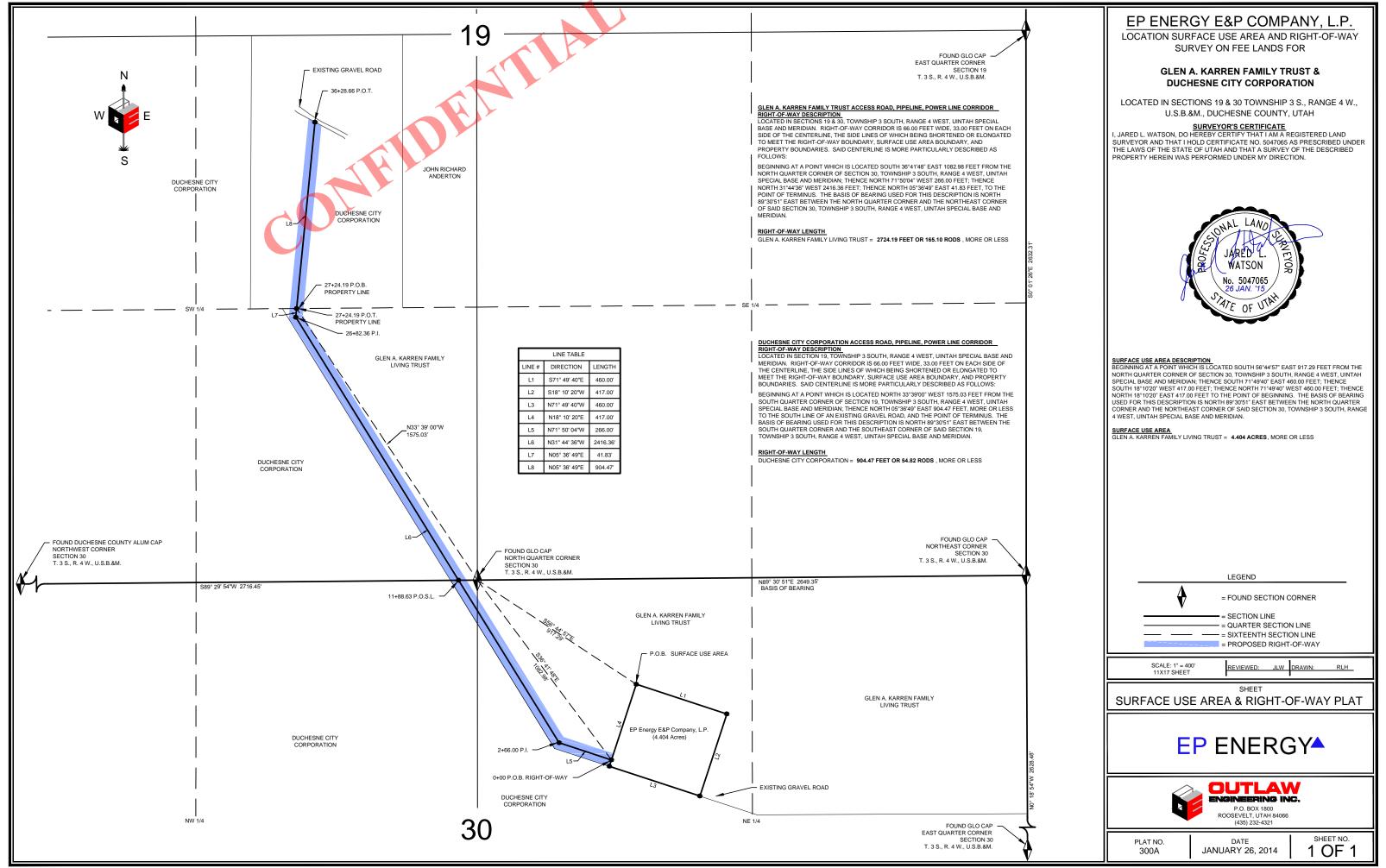




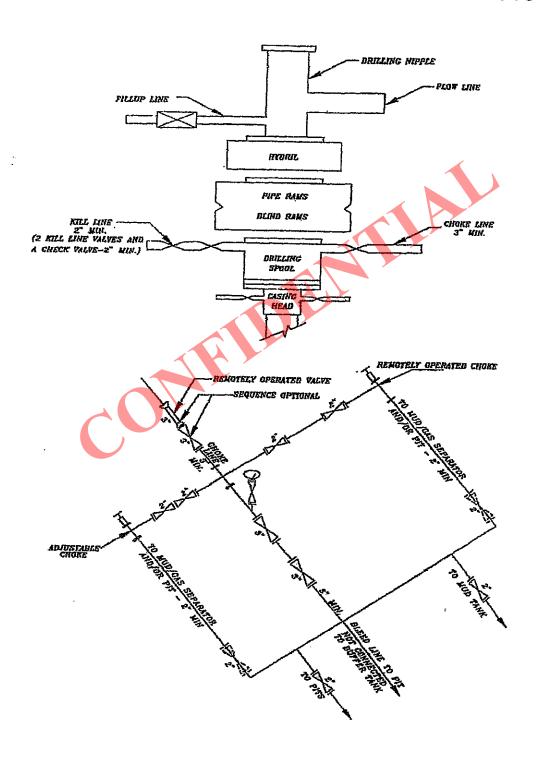


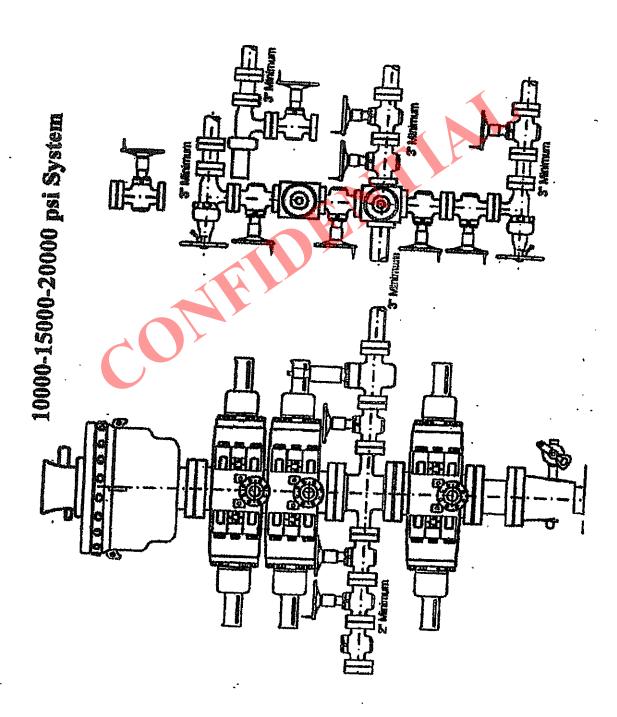


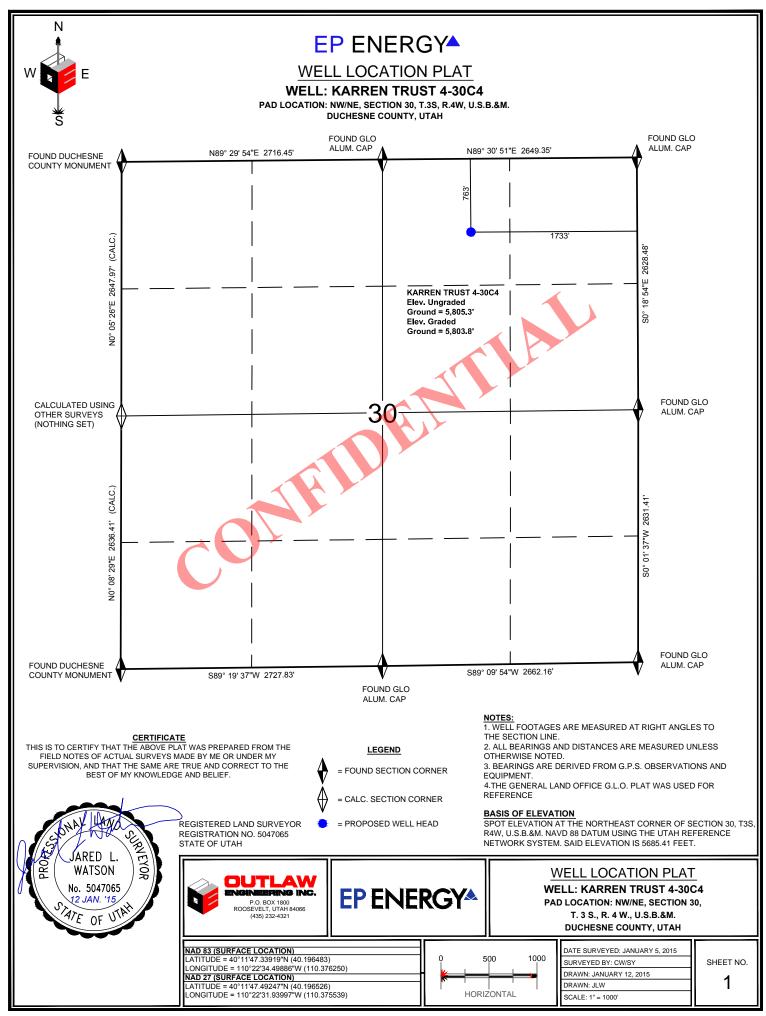


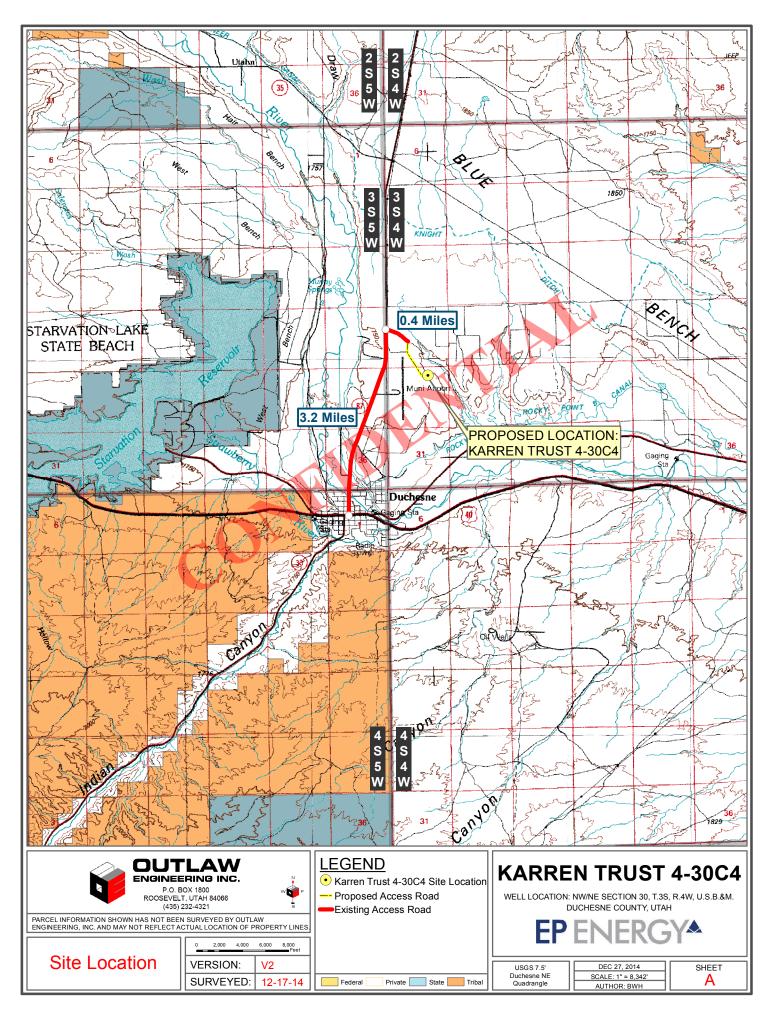


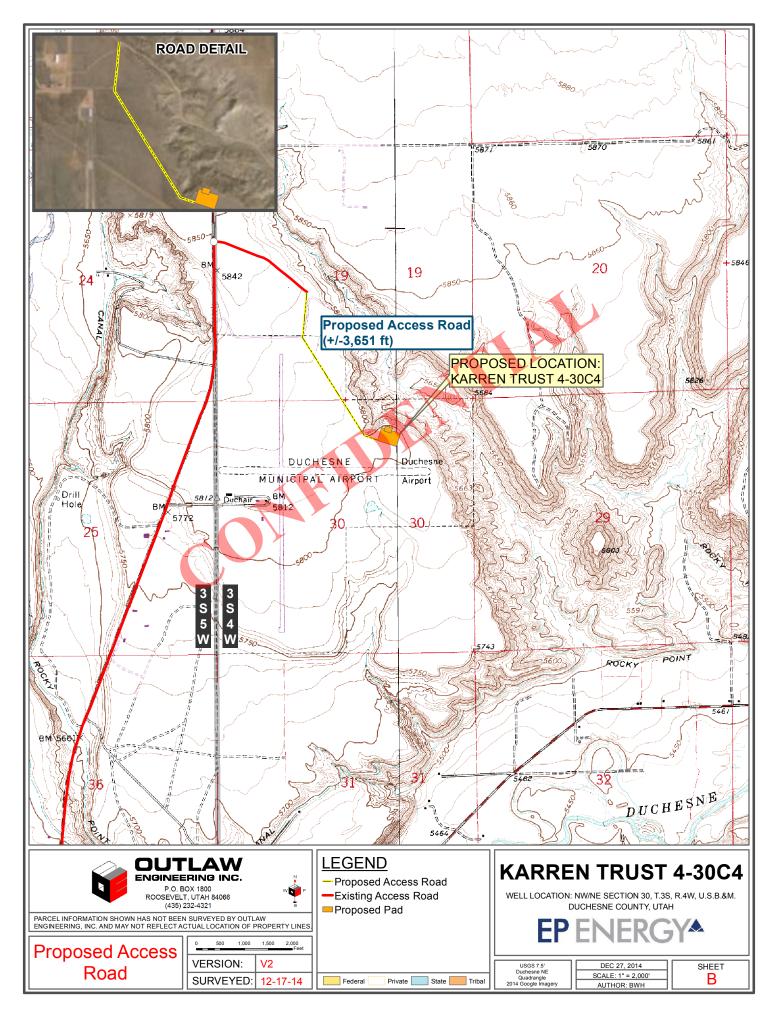
5M BOP STACK and CHOKE MANIFOLD SYSTEM

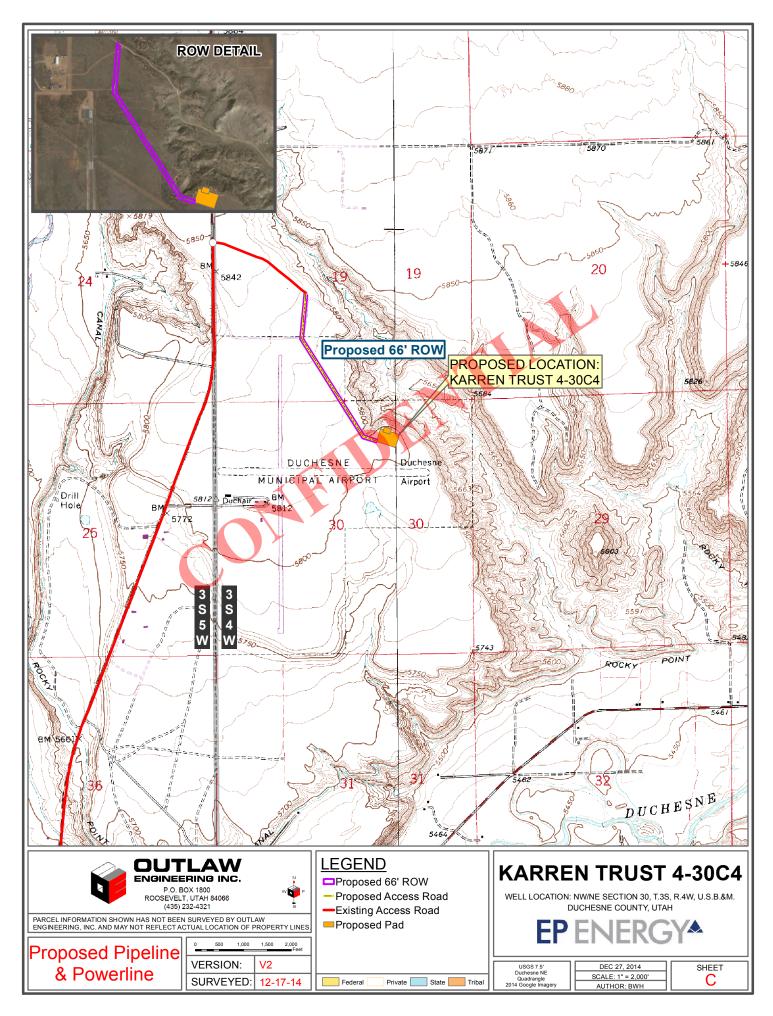


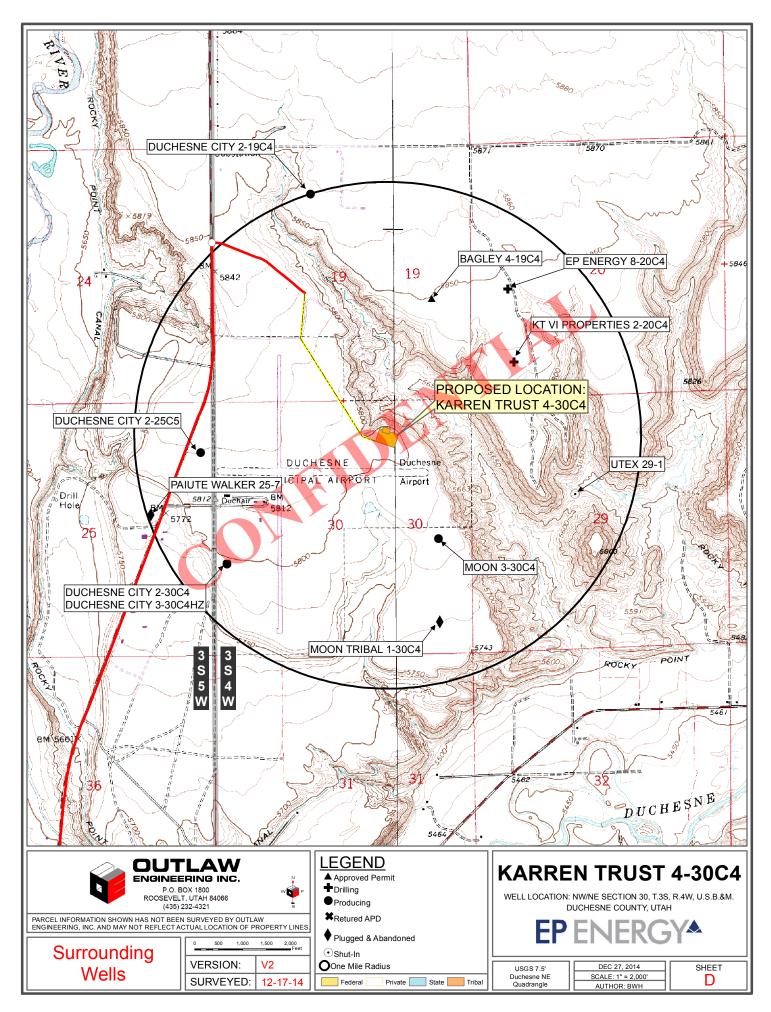














February 11, 2015

State of Utah Division of Oil, Gas and Mining Attn: Mr. Brad Hill 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill

Karren Trust 4-30C4

SHL: 763' FNL & 1733' FEL

NW/4NE/4 of Section 30, Township 3 South, Range 4 West

Duchesne County, Utah

Dear Mr. Hill:

In accordance with the rules and regulations of the State of Utah, EP Energy E&P Company, L.P. ("EP Energy") is submitting an Application for Permit to Drill ("APD") for the proposed Karren Trust 4-30C4 ("Well") to the Utah Division of Oil, Gas & Mining ("UDOGM"). Concurrently with the filing of the APD for the Well, this Application for Permit to Drill letter hereby serves as notice to UDOGM that EP Energy is actively working to finalize the Surface Use and Right-of-Way Agreement ("Surface Agreement") with the surface owner of the Well, whose contact information is as follows ("Surface Owner"):

Glen A. Karren Family Living Trust, under agreement dated March 5, 2008

PO Box 170

Duchesne, UT 84021-0170 Telephone: (435) 823-6355

EP Energy has been diligently negotiating in good-faith with the Surface Owner for several months and is nearing an agreement on the Surface Agreements for the proposed Well. Although EP Energy is confident the Surface Agreements will be executed soon, we are filing the APD without the executed Surface Agreements due to the demands of our drilling schedule. This will allow UDOGM to begin the permitting process as EP Energy finalizes the Surface Agreements. The Affidavit of Surface Agreements ("Affidavit") will be forwarded directly to your office as soon as the Surface Agreements are executed.

UDOGM's effort to begin processing the APD without the executed Surface Agreements is greatly appreciated. EP Energy fully understands the APD will not be approved until we submit the Affidavit or otherwise comply with the Surface Owner Protection Act Provision R649-3-38.

If you have any further questions, please feel free to contact me at your convenience using the phone number and/or email address below.

Very truly yours,

Jacquelyn Lynch

EP Energy E&P Company, L.P.

Landman

1001 Louisiana Street, Suite 2525D

Houston, Texas 77002 Office: (713) 997-5747

Jacquelyn.Lynch@EPEnergy.com

API Well Number: 43013532680000 Application for Permit to Drill – State DOGM Karren Trust 4-30C4 Duchesne County, Utah

EP Energy E&P Company, L.P.

Related Surface Information

1. <u>Current Surface Use:</u>

Livestock Grazing and Oil and Gas Production.

2. <u>Proposed Surface Disturbance:</u>

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .69 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. Location Of Existing Wells:

Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. <u>Location And Type Of Drilling Water Supply:</u>

• Drilling water: Duchesne City Water

5. Existing/Proposed Facilities For Productive Well:

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .69 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line
 and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed
 areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill
 slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. Construction Materials:

 Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. Methods For Handling Waste Disposal:

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be place in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any
 hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a
 later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. Ancillary Facilities:

There will be no ancillary facilities associated with this project.

API Well Number: 43013532680000 Page 2
Application for Permit to Drill – State DOGM

Karren Trust 4-30C4 Duchesne County, Utah

9. Surface Reclamation Plans:

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 - 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 - 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 - 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 - 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 - Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

Glen A. Karren Family Living Trust, under agreement dated March 2, 2008 PO Box 170 Duchesne, Utah 84021-0170 435-823-6355

Other Information:

- The surface soil consists of clay, and silt.
- Flora vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses Livestock grazing and mineral exploration and production.
- Operator and Contact Persons:

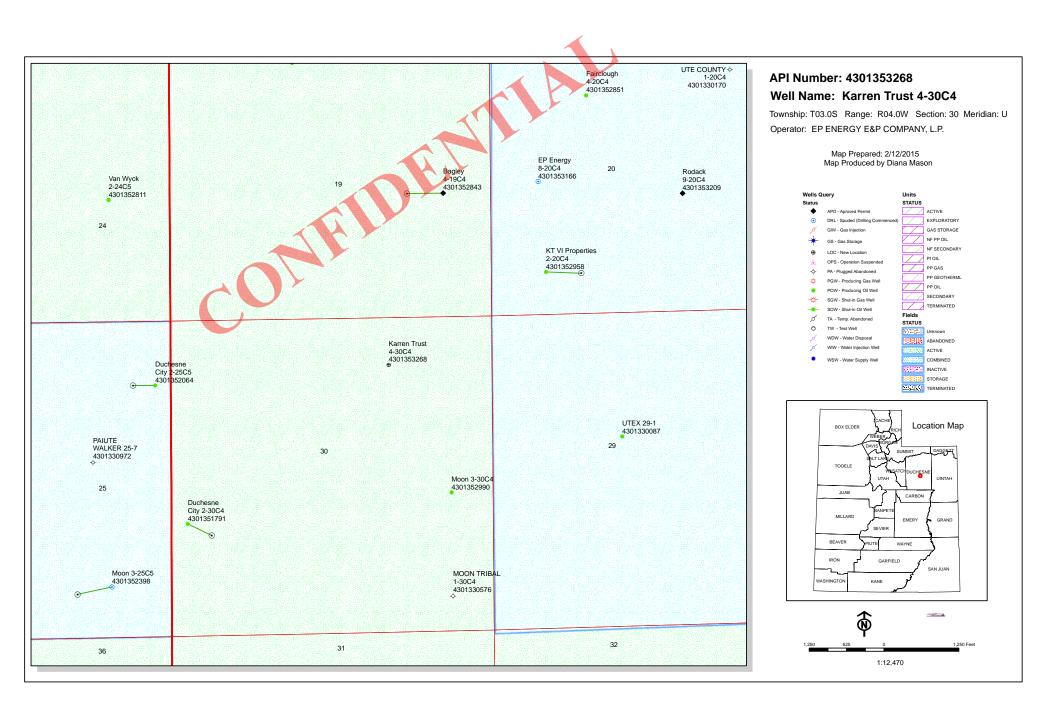
Construction and Reclamation: EP Energy E&P Company, L.P. Wayne Garner PO Box 410 Altamont, Utah 84001 435-454-3394 – Office 435-823-1490 – Cell

EP Energy E&P Company, L.P. Maria S. Gomez 1001 Louisiana, Rm 2730D Houston, Texas 77002 713-997-5038 – Office

Regarding This APD

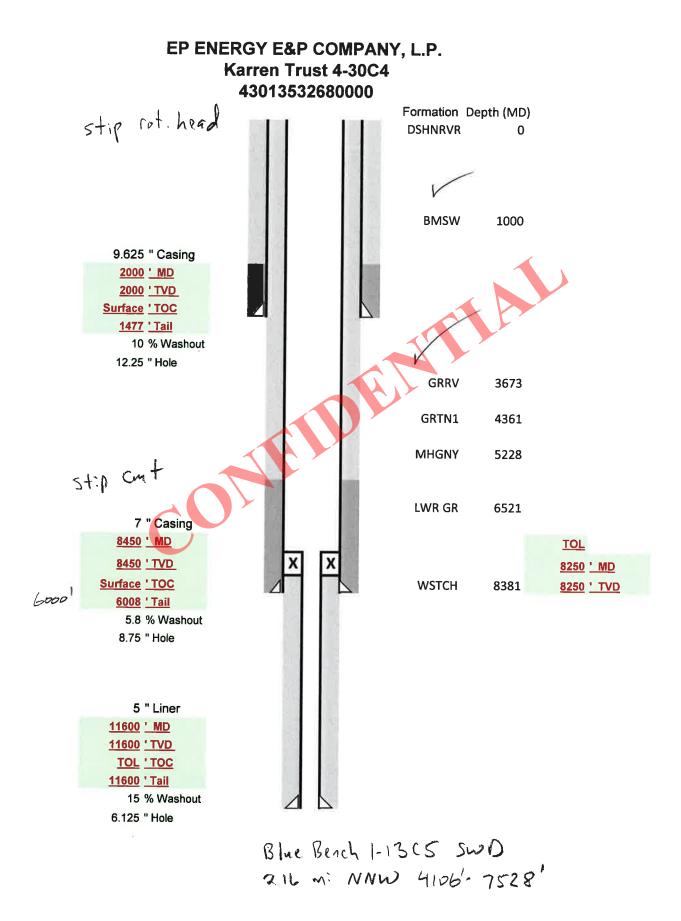
Drilling

EP Energy E&P Company, L.P. Brad MacAfee – Drilling Engineer 1001 Louisiana, Rm 2660D Houston, Texas 77002 713-997-6383 – office 281-813-0902 – Cell



BOPE REVIEW EP ENERGY E&P COMPANY, L.P. Karren Trust 4-30C4 43013532680000

Well Name		EP ENERGY E&	P COMPANY, L.P.	Karren Trust 4-	30C4 4	301353268	00	
String		Surf	11	L1	j [<u> </u>	
Casing Size(")		9.625	7.000	5.000	j [<u> </u>	
Setting Depth (TVD)		2000	8450	11600	j I		<u></u>	
Previous Shoe Setting Dept	h (TVD)	0	2000	8450	j I		<u></u>	
Max Mud Weight (ppg)		8.3	10.2	12.0	ī lī		<u></u>	
BOPE Proposed (psi)		500	10000	10000	ī lī		<u></u>	
Casing Internal Yield (psi)		5750	11220	13940	j I		<u></u>	
Operators Max Anticipated	Pressure (psi)	7238		12.0	j []	
Calculations		Surf Stri	ing		Ė	9.625		
Max BHP (psi))52*Setting D	epth*MW=	86			
· · · · · · · · · · · · · · · · · · ·					1 00	3	BOPE Ade	equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=	62	3	NO	diverter stack
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=	42	3	YES	OK
					ľ		-	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	oe Depth)=	42	3	NO	OK
Required Casing/BOPE Tes	st Pressure=				20	00	psi	
*Max Pressure Allowed @	Previous Casing S	Shoe=			0		psi *As	sumes 1psi/ft frac gradient
Calculations		I1 Strin	ο α			7.000	"	
Max BHP (psi)			52*Setting D	epth*MW=	44			
· · · · · · · · · · · · · · · · · · ·				1	تتا	02	BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=	34	68 Î	YES	10M BOP stack, 5M annular
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=	26	23	YES	OK
		1			-		*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	oe Depth)=	30	63	NO	OK
Required Casing/BOPE Tes	st Pressure=				78	54	psi	
*Max Pressure Allowed @ 1	Previous Casing	Shoe=			20	00	psi *As	sumes 1psi/ft frac gradient
Calculations		L1 Strir	200			5.000		
Max BHP (psi)			52*Setting D	epth*MW=	72			
4 /				1	1/2	30	BOPE Ade	equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=	58	46	YES	10M BOP stack, 5M annular
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=	46	86	YES	ОК
							*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	oe Depth)=	65	45	YES	
Required Casing/BOPE Tes	st Pressure=				9758 psi			
Max Pressure Allowed @ Previous Casing Shoe=			84	50	psi *As	sumes 1psi/ft frac gradient		
Calculations		String	,		_		"	
Max BHP (psi))52*Setting D	epth*MW=	┢	i		
-					╀		BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=		ĵ	NO	
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=	F		NO	
					Ė		*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	oe Depth)=			NO	
Required Casing/BOPE Tes	st Pressure=						psi	
*Max Pressure Allowed @]	Previous Casina	Shoe-					nei *Ac	sumes Insi/ft frac gradient



EP ENERGY E&P COMPANY, L.P. Karren Trust 4-30C4 43013532680000

				1.125			1		1.8			
		Collapse	Collapse		Burst Strength	Burst Load		Tension	Tension	Neutral	Tension	Tension
	MASP	Strength (psi)	Load (psi)	Collapse DF	(psi)	(isd)	Burst DF	Strength (kips)	占	Point (ft)	Air (kips)	Buoyed (kips)
9.625 " Casing	176	3090	416	7.44	5750	2000	2.88	737	9.21	1878	80.0	75.2
		Internal Grad.	Backup	Internal	Max Shoe	CSG Wt	SSG		Cement		Cement	
	MW (ppg)	(psi)	Mud (ppg)	Mud (ppg)	Pressure (psi)*	(llbs/ft)	Grade	CSG Collar	Lead (sx)	Lead Yield	Tail (sx)	Tail Yield
	4.0	0.12			3058	40.0	N-80	LTC	412	2.36	195	1.30
		Collapse	Collapse		Burst Strength	Burst Load		Tension	Tension	Neutral	Tension	Tension
	MASP	Strength (psi)	Load (psi)	Collapse DF	(psi)	(isd)	Burst DF	Strength (kips)	ᅜ	Point (ft)	Air (kips)	Buoyed (kips)
7 " Casing	2618	9200	4477	2.05	11220	6538	1.72	797	3.85	7132	245.1	207.2
						•						
		Internal Grad.	Backup	Internal	Max Shoe	CSG Wt	953		Cement		Cement	
	MW (ppg)	(psi)	Mud (ppg)	(bdd) pnW	Pressure (psi)*	(lbs/ft)	Grade	CSG Collar	Lead (sx)	Lead Yield	Tail (sx)	Tail Yield
	10.2	0.22			6538	29.0	HCP-110	LTC	290	1.91	298	1.64
								a				
		Collapse	Collapse		Burst Strength	Burst Load		Tension	Tension	Neutral	Tension	Tension
	MASP	Strength (psi)	Load (psi)	Collapse DF	(bsi)	(psi)	Burst DF	Strength (kips)	PF	Point (ft)	Air (kips)	Buoyed (kips)
5 " Liner	4679	13418	7231	1.86	13940	7231	1.93	495	10.04	10985	60.3	49.3
								5				
		Internal Grad.	Backup	Internal	Max Shoe	CSG Wt	953		Cement		Cement	
	MW (ppg)	(psi)	(Bdd) pnW	(Bdd) pnW	Pressure (psi)*	(lps/ft)	Grade	CSG Collar	Lead (sx) Lead Yield	Lead Yield	Tail (sx)	Tail Yield
	12.0	0.22			8250	18.0	HCP-110	LTC	199	1.52		
									1	1		

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Jacquelyn L. Lynch personally appeared before me, and, being duly sworn, deposes and says:

- 1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
- 2. EP Energy is the operator of the proposed Karren Trust 4-30C4 well (the "Well") to be located in the NW/4NW/4 of Section 30, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Glenn A. Karren Family Living Trust whose address is PO Box 170, Duchesne, Utah 84021 (the "Surface Owner"). The Surface Owner's telephone number is (435) 454-4245.
- 3. EP Energy and the Surface Owner have entered into a Surface Use Agreement dated February 16, 2015 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT

Jacquelyn L. Lynch

Ginger M. Cearley

ACKNOWLEDGMENT

STATE OF TEXAS

§ §

COUNTY OF HARRIS

Sworn to and subscribed before me on this 12th day of March, 2015, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.

My Commission Expires:

2015

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.

Well Name Karren Trust 4-30C4

API Number 43013532680000 APD No 11071 Field/Unit **ALTAMONT**

Sec 30 Tw 3.0S Rng 4.0W 763 FNL 1733 FEL Location: 1/4,1/4 NWNE

GPS Coord (UTM) 553088 4449755 **Surface Owner** Glen A. Karren Family Living Trust

Participants

Glen Karren (surface owner); Kelsey Carter (EP Energy permitting); Randy Fredrick (EP Energy Construction); Jay Van tassel (EP Lands); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The Karren Trust 4-30C4 well is proposed in northeastern Utah and can be accessed by turning north off U.S. Highway 40 onto Highway 87 for 3.2 miles where an existing access road will be upgraded to the east for 0.4 miles and the new road will lead southeast into the well site. This well is located along the eastern side of bench property that drops into a large southeast drainage that continues past Rocky Point into the Duchesne Flood Plain east of that town some 1.20 miles away. The Airport has an east/west existing runway less than a quarter mile to the south, and a north/south runway just over a quarter mile to the west. The immediate surface is nearly flat and shows less than a two-foot drop in elevation across the width of the pad.

Surface Use Plan

Current Surface Use

Recreational Wildlfe Habitat

New Road

Well Pad Miles

Src Const Material

Surface Formation

0.69

Width 282 Length 410

Onsite

UNTA

Ancillary Facilities N

Reserve pit and disturbance area is 417' wide by 460' long

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Pinion/juniper, sagebrush, prickly pear cactus, bunch grass;

Elk, mule deer, mountain lion, bobcat, coyote, fox, jack and cottontail rabbits, other smaller mammals and birds typical of region.

Soil Type and Characteristics

Reddish to light brown in color, fine-grained, sandy loam with some clays and cobbles present

Erosion Issues N

RECEIVED: March 12, 2015

Sedimentation Issues N

Site Stability Issues Y

Shorten reserve pit from 150' to 140' in width and add volume to length if necessary

Drainage Diverson Required? N

Berm Required? Y

tanks and location

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet) 300 to 1000	. 2	
Dist. Nearest Municipal Well (ft) 1320 to 5280	5	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	High permeability	20	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations	10 to 30	10 to 30	
Presence Nearby Utility Conduits	Present	15	
	Final Score	53	1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit off the north side in 0.1 feet of fill at corner number "C", measuring 100' wide by 150' long by 8' deep. Reserve pit will be shortened from 110' to 100' to stabilize cobble rock hillside to the north and reduce fill area.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

Other Observations / Comments

Shorten pit width from 110' to 100' or less to prevent any potential seepage from adjacent, cobble rock hillside and reduce fill area on pit berm. Production tanks on the southwest side of location. This well was staked as close to airport runway as is allowed.

Dennis Ingram 2/26/2015

Evaluator Date / Time

RECEIVED: March 12, 2015

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
11071	43013532680000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COM	MPANY, L.P.	Surface Owner-APD	Glen A. Karren Living Trust	Family
Well Name	Karren Trust 4-30C	4	Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWNE 30 3S 4	W U 763 FNL	1733 FEL GPS	Coord	
Location	(UTM) 553093E	4449745N			

Geologic Statement of Basis

EP proposes to set 40 feet of conductor and 2,000 feet of surface casing both of which will be cemented to surface. The surface hole will be drilled utilizing air/fresh water mud. The estimated depth to the base of moderately saline ground water is 1,000 feet. A search of Division of Water Rights records indicates that there are 23 water wells within a 10,000 foot radius of the center of Section 30. These wells probably produce water from the Duchesne River Formation and associated alluvium. Depths of the wells fall in the range of 29-500 feet. Depth is not listed for one well. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill 3/3/2015 **APD Evaluator** Date / Time

Surface Statement of Basis

There aren't any drainage issues crossing the proposed well pad; however, a large, deep drainage is located immediately north of the well pad and drains southeasterly into the Duchesne River Corridor. The production facility is proposed along the south side of the location, and the operator shall berm both the tanks and the location to prevent fluids from leaving location.

A reserve pit is planned for the north side of location between corners #5 & #7 and has a large downhill slope into the adjacent canyon. Furthermore, cobble rocks litter the ground as the topography turns downward to the north. Therefore the operator shall shorten the width of the proposed pit from 110' to 100' or less to stabilize the north side. Some of the pit spoils shall also be piled to the north but not beyond the disturbance line where it will run down slope. The length of this pit can be extended by ten feet to make up for the loss along the north side. The underlying ground shows round cobbles, sandstone and some clays, and therefore the operator shall install a felt pad underlayment before installing a 20 mil synthetic liner to prevent leaks or seepage of the drilling fluids.

A presite was scheduled and performed on February 26, 2015 to take input and address issues regarding the permitting of the Karren Trust 4-30C4 well. Glen Karren was shown as the landowner of record and was therefore invited to participate. EP Energy was still working with the landowner to gain a surface damage or landowner agreement, and this permit should not be released until the State has received proof of that document.

RECEIVED: March 12, 2015

Dennis Ingram 2/26/2015
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed

and maintained in the reserve pit. This pit shall also be fenced to prevent deer and wildlife from

entering same.

Pits The reserve pit should be located on the north side of the location. Also shorthen width from 110' to

100' or less

Surface The well site shall be bermed to prevent fluids from entering or leaving the pad.

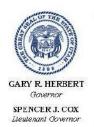


WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/12/2015 API NO. ASSIGNED: 43013532680000 WELL NAME: Karren Trust 4-30C4 OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850) PHONE NUMBER: 713 997-5038 CONTACT: Maria S. Gomez PROPOSED LOCATION: NWNE 30 030S 040W Permit Tech Review: **SURFACE: 0763 FNL 1733 FEL Engineering Review:** Geology Review: **BOTTOM: 0763 FNL 1733 FEL COUNTY: DUCHESNE LATITUDE**: 40.19642 LÓNGITUDE: -110.37622 UTM SURF EASTINGS: 553093.00 NORTHINGS: 4449745.00 FIELD NAME: ALTAMONT LEASE TYPE: 4 - Fee **LEASE NUMBER:** Fee PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH SURFACE OWNER: 4 - Fee **COALBED METHANE: NO RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** ✓ PLAT R649-2-3. Bond: STATE/FEE - 400JU0708 Unit: **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception **Drilling Unit** Oil Shale 190-13 Board Cause No: Cause 139-124 Water Permit: Duchesne City Effective Date: 11/6/2014 **RDCC Review:** Siting: 8 WELLS PER SECTION **Fee Surface Agreement** Intent to Commingle R649-3-11. Directional Drill **Commingling Approved** Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill 7 - BOPE Test - daynedoucet

12 - Cement Volume (3) - ddoucet 25 - Surface Casing - ddoucet



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Karren Trust 4-30C4 API Well Number: 43013532680000

Lease Number: Fee

Surface Owner: FEE (PRIVATE) **Approval Date:** 3/12/2015

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-124. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7 inch casing shall be determined from actual hole diameter in order to place tail cement from the pipe setting depth back to 6000' MD and lead cement back to surface as indicated in the submitted drilling plan.

A properly lubricated rotating head shall be used while air drilling.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Annuarad Dr.

Approveu by:

For John Rogers Associate Director, Oil & Gas





Carol Daniels < caroldaniels@utah.gov>

NWNE SEC 30 TO35 ROYW

FEE LEASE

24 hour notice running casing & cementing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com> Fri, Mar 27, 2015 at 6:40 AM To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

KAREN TRUST 4-30C4

API # 43013532680000

ALTAMONT FIELD

DUCHESNE COUNTY

Leon Ross Drilling moved in and commenced drilling the 12¼" surface hole @ 7:30 pm on 3/825/2015. We plan on running and cementing 9-5/8" Surface Casing to +/- 2,120' within 24hrs.

Thanks.

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)



Alexis Huefner <alexishuefner@utah.gov>

24 HR SPUD NOTICE 20" CASING.

1 message

LANDRIG009 (Precision 406) < LANDRIG009@epenergy.com>

Tue, Mar 24, 2015 at 7:40

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D"

<Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>,

"dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>,

"Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S"

<Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

KAREN TRUST 4-30C4

API # 43013532680000

ALTAMONT FIELD

DUCHESNE COUNTY

Leon Ross Drilling spudded the well @ 10:00hrs on 3/24/2015. We plan on running and cementing 20" Conductor Casing to +/- 40' within 24hrs.

Thanks.

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)



Carol Daniels caroldaniels@utah.gov

NWNE SEC 30 TO3S ROYW FEE LEASE

24 HR NOTICE RUNNING CASING/ CEMENTING.

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com> Sun, Apr 19, 2015 at 4:01 AM To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

KAREN TRUST 4-30C4

API # 43013532680000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 7" 29# P-110HC LT&C Intermediate Casing to +/- 8,453' within 24hrs

Thanks.

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)





Carol Daniels < caroldaniels@utah.gov>

NWNE S-30 TO3S ROYW

FEE LEASE

24hr Notice Run & Cement Casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>
Thu, Apr 23, 2015 at 5:24 AM To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

* ARK EN

KAREN TRUST 4-30C4

API # 43013532680000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 5" 18# P-110HC STL Production liner to +/- 11,103' within 24hrs.

Thanks.

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	Y NOTICES AND REPORTS ON	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: Karren Trust 4-30C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY,	LP.		9. API NUMBER: 43013532680000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston,		HONE NUMBER:	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0763 FNL 1733 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 30 Township: 03.0S Range: 04.0W Meridia	ın: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
5/11/2015	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	New construction
Date of Work Completion:			
	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON
	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
·	☐ WILDCAT WELL DETERMINATION ✓	OTHER	OTHER: Initial Completion
	completed operations, clearly show all pinto the Wasatch. Please see a	-	lepths, volumes, etc. Approved by the UMaly 27,i≤10 ft.50 f Oil, Gas and Mining
			_
			Date:
			By: Dork Out
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analys	ıt
SIGNATURE		DATE	
N/A		5/13/2015	

Karren Trust 4-30C4

Initial Completion

API#: 43013532680000

The following precautions will be taken until the RCA for the Conover is completed:

- 1. Review torque turning and running of the 7" and 5" liner of anomalies.
- **2.** Test and chart casing for 30 minutes, noting pressure if any on surface casing.
- **3.** Test all lubricators, valves and BOP's to working pressure.
- **4.** A frac tree with BOP equipment will be utilized during the stimulation treatment.
- **5**. Monitor the surface casing during frac:
 - **a.** Lay a flowline to the flow back tank and keep the valve open.
 - **b.** This line will remain in place until a wire line set retrievable packer is in place isolating the casing after the frac.
- **6**. 2 7/8" tubing will be run to isolate the casing during the flow back of the well.
- 7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

Stage #1	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from $^{\sim}10603'-10946'$ with $^{\sim}5000$ gallons of 15% HCL acid, $^{\sim}3000$ # of 100 mesh sand and $^{\sim}150000$ # of TLC 30/50. Total clean water volume is 3647 bbls.
Stage #2	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from $^{\sim}10211'-10521'$ with $^{\sim}5000$ gallons of 15% HCL acid, $^{\sim}3000$ # of 100 mesh sand and $^{\sim}150000$ # of TLC 30/50. Total clean water volume is 3640 bbls.
Stage #3	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from $^9876'-10184'$ with 5000 gallons of 15% HCL acid, 3000 # of 100 mesh sand and 150000 # of TLC 30/50. Total clean water volume is 3634 bbls.
Stage #4	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from $^9613'-9846'$ with 5000 gallons of 15% HCL acid, 3000 # of 100 mesh sand and 150000 # of TLC 30/50. Total clean water volume is 3630 bbls.
Stage #5	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from $^{9337'}$ – 9581' with 5000 gallons of 15% HCL acid, 3000 # of 100 mesh sand and

~150000 # of TLC 30/50. Total clean water volume is 3625 bbls.

RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from Stage #6 ~9087' - 9307' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and

~150000 # of TLC 30/50. Total clean water volume is 3620 bbls.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8797' - 9050' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of White 30/50. Total clean water volume is 3615 bbls.

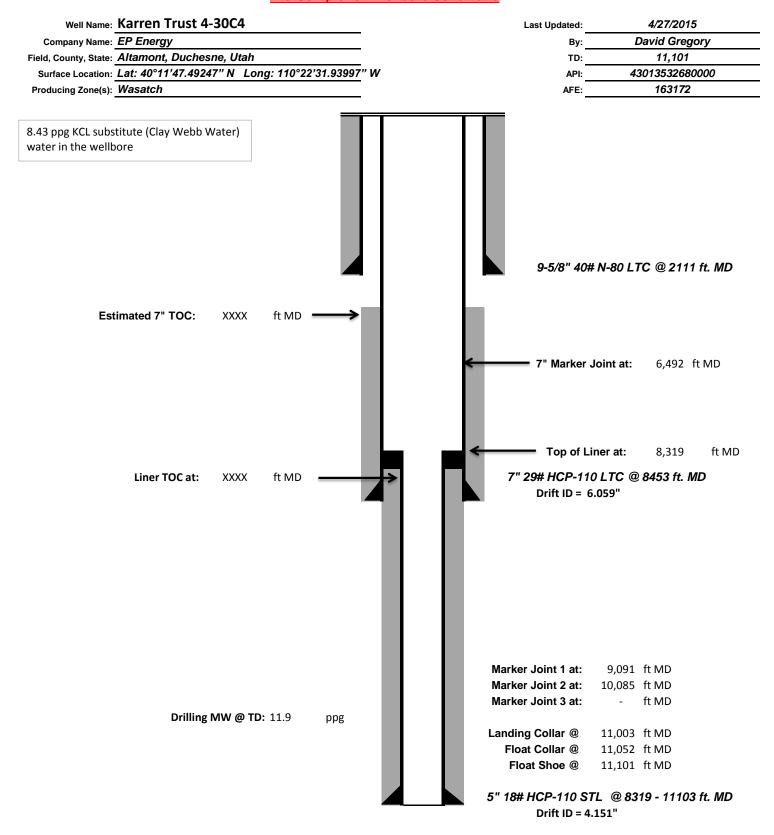
Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8521' - 8760' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of White 30/50. Total clean water volume is 3610 bbls.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	BBLs of Clean H2O	BBLs of Slurry
Stage #1	10,603	10,946	343	NA	23	69	17	TLC 30/50	150,000	437	3,000	5,000	3,647	4,048
Stage #2	10,211	10,521	310	10,536	23	69	17	TLC 30/50	150,000	484	3,000	5,000	3,640	4,041
Stage #3	9,876	10,184	308	10,199	23	69	17	TLC 30/50	150,000	487	3,000	5,000	3,634	4,035
Stage #4	9,613	9,846	233	9,861	23	69	17	TLC 30/50	150,000	644	3,000	5,000	3,630	4,030
Stage #5	9,337	9,581	244	9,596	21	63	17	TLC 30/50	150,000	615	3,000	5,000	3,625	4,025
Stage #6	9,087	9,307	220	9,322	22	66	17	TLC 30/50	150,000	682	3,000	5,000	3,620	4,021
Stage #7	8,797	9,050	253	9,065	23	69	17	White 30/50	150,000	593	3,000	5,000	3,615	4,027
Stage #8	8,521	8,760	239	8,775	23	69	17	White 30/50	150,000	628	3,000	5,000	3,610	4,022
Average p	er Stage		269		23	68	17		150,000	571	3,000	5,000	3,628	4,031
Totals per	Well		2,150		181	543	136		1,200,000		24,000	40,000	29,021	32,250

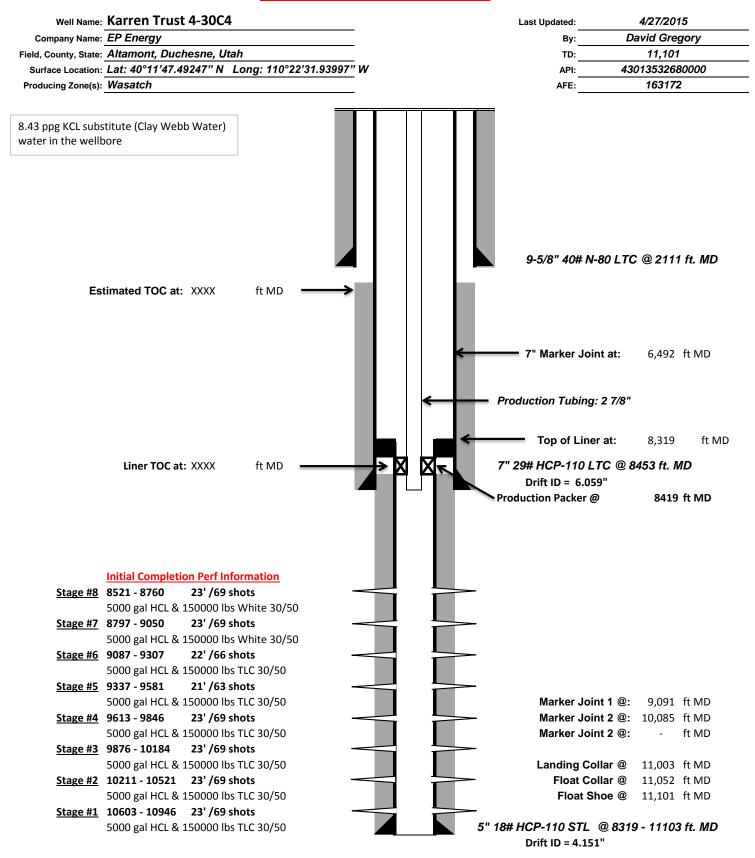


Pre-Completion Wellbore Schematic





Post-Completion Wellbore Schematic



14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): 18. TOTAL DEPTH: MD 19. PLUG BACK T.D.: MD TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. WAS WELL CORED? NO YES (Submit analysis) WAS DST RUN? NO YES (Submit report) DIRECTIONAL SURVEY? NO YES (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well)				DEPA	S1 RTMEN	TATE (_		URCES	3					ENDED F	REPORT anges)	FORM 8
WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1. TYPE OF WELL:				DIVIS	ION O	F OIL,	GAS	AND I	MININ	G				5. LE	ASE DESIG	SNATION AND SE	RIAL NUMBER:
Note	WELI	L CON	/IPLE	TION	OR I	RECC	MPL	ETIC	N RI	EPOR	T ANI	D LOG		6. IF	INDIAN, AL	LOTTEE OR TRI	BE NAME
NEWL 1978 PEP RETRY DEFN OTHER	1a. TYPE OF WELL:	:	(OIL C]	GAS C		DRY		ОТН	ER			7. UI	NIT or CA A	GREEMENT NAM	E
2. ADDRESS OF OPERATOR: 3. ADDRESS OF OPERATOR: CITY STATE ZIP PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT 11. OTROTES, SECTION, TOWNSHIP, RANGE, MERIDIAN. 11. OTROTES, SECTION, TOWNSHIP, RANGE, MERIDIAN. 12. COUNTY 13. STATE 14. DATE SPUDDED: 15. DATE TD, REACHED: 16. DATE COMPLETED: ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): 18. TOTAL DEPTH: 19. PLUG SET: TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? 21. DEPTH BRIDGE MD PLUG SET: TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. TWAS WELL CORED? WAS SET RUN? DIRECTIONAL SURVEY? NO VES (Submit analysis) (Submit analysis) (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) HOLE SIZE SIZE.GRADE WEIGHT (WII) TOP (MD) BOTTOM (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER S	NEW	HORIZ. \Box	¬	DEEP-	٦	RE- F		DIFF.	\neg	ОТН	≡R			8. W	ELL NAME :	and NUMBER:	
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(B) Open Squeezed (C) Open Open Squeezed (D) Ope	FORMATION	NAME	ТО	P (MD)	BOTTO	OM (MD)	TOP	(TVD)	вотто	M (TVD)	INTERVA	AL (Top/Bot - M	1D) S	SIZE	NO. HOLES	PERFOR	ATION STATUS
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DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL	28. ACID, FRACTUF	RE, TREATI	MENT, CEN	MENT SQL	JEEZE, ET	c. See	e att	tach	ed f	or f	urth	er inf	orma	tic	n on	#27 &	#28.
	DEPTH I	INTERVAL								AMO	DUNT AND T	TYPE OF MATE	ERIAL				
29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor. 30. WELL STATUS:	29. ENCLOSED ATT	TACHMENT	s: Al	l 10	gs a	re s	ubmi	tted	l to	UDO	GM by	vendo	or.			30. WEL	L STATUS:
ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER:	ELECT	RICAL/MEC	HANICAL I	LOGS					GEOLOG	C REPOR	, <u> </u>	DST REPORT		DIREC	ΓΙΟΝΑL SUF	RVEY	

(CONTINUED ON BACK)

31. INITIAL PRO	ODUCTION				INT	ERVAL A (As sho	wn in item #26)						
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTER	D:	TEST PRODUCTION RATES: →	N	OIL – BBL:	GAS – MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	ESS. API GR	AVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIC RATES: →	NC	OIL – BBL:	GAS – MCF:	WATER -	- BBL:	INTERVAL STATUS:
			<u> </u>		INT	ERVAL B (As sho	wn in item #26)			<u>'</u>			•
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTER	D:	TEST PRODUCTION RATES: →	N	OIL – BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	ESS. API GR	AVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIC RATES: →	NC	OIL – BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS:
					INT	ERVAL C (As sho	wn in item #26)						
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTER	D:	TEST PRODUCTION RATES: →	Ŋ	OIL – BBL:	GAS – MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	ESS. API GR	AVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	NC	OIL – BBL:	GAS – MCF:	WATER -	- BBL:	INTERVAL STATUS:
		I.	l .		INT	ERVAL D (As sho	wn in item #26)						•
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CHOKE SIZE:	SIZE: TBG. PRESS. CSG. PRESS. API GRAVITY BTU – GAS GAS/C					GAS/OIL RATIO	24 HR PRODUCTION RATES: →	NC	OIL – BBL:	GAS – MCF:	WATER -	- BBL:	INTERVAL STATUS:
32. DISPOSITIO	32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)								I.	•			•
33. SUMMARY	OF POROUS Z	ONES (Includ	e Aquifers):					34.	. FORMATION	(Log) MARKERS:			
			ents thereof: Core nd shut-in pressu			n tests, including de	epth interval						
Formation	on	Top (MD)	Bottom (MD)		Descrip	otions, Contents, etc	: .			Name		(1	Top Measured Depth)
35. ADDITIONA	L REMARKS (I	nclude pluggi	ing procedure)	-			-				•		
36. I hereby cer	rtify that the for	egoing and a	ttached informa	ition is c	omplete and corr	ect as determined	from all available re	cor	rds.				
NAME (PLEAS	SE PRINT)						TITLE						
SIGNATURE							DATE						

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

Attachment to Well Completion Report

Form 8 Dated June 14, 2015

Well Name: Karren Trust 4-30C4

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9327'-9573'	.40	63	Open
9073'-9297'	.40	66	Open
8783'-9039'	.40	69	Open
8587'-8746'	.40	45	Open

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9605'-9839'	5000 gal acid, 3000# 100 mesh, 150600# 30/50 TLC
9327'-9573'	5000 gal acid, 3000# 100 mesh, 150700# 30/50 TLC
9073'-9297'	5000 gal acid, 3000# 100 mesh, 150620# 30/50 TLC
8783'-9039'	5000 gal acid, 3000# 100 mesh, 150660# 30/50 White
8587'-8746'	5000 gal acid, 2800# 100 mesh, 150160# 30/50 White

EP ENERGY*

Company:EP EnergyJob Number:CalculateWell:Karren Trust 4-30C4Mag Decl.:ProposeLocation:Duchesne, UTDir Driller:Depth RRig:Precision 406MWD Eng:Tie Into

Calculation Method Minimum Curvature
Proposed Azimuth
Depth Reference KB
Tie Into: Gyro/MWD

Survey	Survey	Inclina-		Course	True Vertical	Vertical	(Coor	dinates		Clos	ure	Dogleg	Build	Walk
Number	Depth	tion	Azimuth	Length	Depth	Section	N/S		E/W		Distance	Direction	Severity	Rate	Rate
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)		(ft)		(ft)	Azimuth	(d/100')	(d/100')	(d/100')
		•	•												
Tie In	0.00	0.00	0.00												
1	100.00	0.21	107.03	100.00	100.00	-0.05	0.05	S	0.17	Е	0.18	107.03	0.21	0.21	107.03
2	200.00	0.21	198.31	100.00	200.00	-0.28	0.28	S	0.29	Е	0.41	134.30	0.30	0.00	91.28
3	300.00	0.18	205.85	100.00	300.00	-0.60	0.60	S	0.16	Е	0.62	164.79	0.04	-0.03	7.54
4	400.00	0.33	181.64	100.00	400.00	-1.03	1.03	S	0.09	Е	1.03	175.19	0.18	0.15	-24.21
5	500.00	0.48	197.20	100.00	499.99	-1.72	1.72	S	0.05	W	1.72	181.53	0.19	0.15	15.56
6	600.00	0.63	184.76	100.00	599.99	-2.67	2.67	S	0.22	W	2.68	184.62	0.19	0.15	-12.44
7	700.00	0.55	205.50	100.00	699.98	-3.65	3.65	S	0.47	W	3.68	187.31	0.23	-0.08	20.74
8	800.00	0.43	202.12	100.00	799.98	-4.44	4.44	S	0.82	W	4.51	190.44	0.12	-0.12	-3.38
9	900.00	0.43	204.62	100.00	899.98	-5.13	5.13	S	1.12	W	5.25	192.28	0.02	0.00	2.49
10	1000.00	0.41	174.71	100.00	999.98	-5.83	5.83	S	1.24	W	5.96	192.02	0.22	-0.02	-29.91
11	1100.00	0.67	172.91	100.00	1099.97	-6.77	6.77	S	1.14	W	6.86	189.54	0.26	0.26	-1.81
12	1200.00	0.74	188.53	100.00	1199.96	-7.99	7.99	S	1.16	W	8.07	188.27	0.21	0.08	15.62
13	1300.00	0.63	195.51	100.00	1299.96	-9.16	9.16	S	1.40	W	9.26	188.72	0.14	-0.12	6.98
14	1400.00	0.80	191.75	100.00	1399.95	-10.37	10.37	S	1.69	W	10.51	189.27	0.18	0.17	-3.76
15	1500.00	0.87	198.60	100.00	1499.94	-11.78	11.78	S	2.08	W	11.96	190.01	0.12	0.07	6.85
16	1600.00	1.02	208.10	100.00	1599.92	-13.28	13.28	S	2.74	W	13.56	191.65	0.21	0.14	9.49
17	1700.00	1.01	213.19	100.00	1699.91	-14.79	14.79	S	3.64	W	15.23	193.81	0.09	-0.01	5.10
18	1800.00	0.92	220.25	100.00	1799.89	-16.14	16.14	S	4.64	W	16.79	196.02	0.15	-0.09	7.06
19	1900.00	0.88	227.07	100.00	1899.88	-17.28	17.28	S	5.72	W	18.20	198.31	0.11	-0.04	6.82
20	2013.00	0.76	213.68	113.00	2012.87	-18.49	18.49	S	6.77	W	19.69	200.10	0.20	-0.11	-11.85
21	2211.00	0.40	43.20	198.00	2210.87	-19.08	19.08	S	7.02	W	20.33	200.20	0.58	-0.18	-86.10
22	2307.00	2.00	30.60	96.00	2306.84	-17.39	17.39	S	5.94	W	18.38	198.85	1.68	1.67	-13.13
23	2402.00	3.00	17.20	95.00	2401.75	-13.59	13.59	S	4.36	W	14.27	197.79	1.21	1.05	-14.11
24	2499.00	1.90	10.00	97.00	2498.66	-9.58	9.58	S	3.33	W	10.15	199.16	1.18	-1.13	-7.42
25	2594.00	2.90	359.00	95.00	2593.58	-5.63	5.63	S	3.10	W	6.43	208.83	1.15	1.05	367.37
26	2690.00	1.80	340.30	96.00	2689.50	-1.78	1.78	S	3.65	W	4.06	243.98	1.38	-1.15	-19.48
27	2786.00	2.40	341.70	96.00	2785.43	1.55	1.55	Ν	4.79	W	5.03	287.89	0.63	0.63	1.46
28	2882.00	2.90	348.10	96.00	2881.33	5.83	5.83	Ν	5.92	W	8.31	314.56	0.60	0.52	6.67
29	2979.00	2.20	329.10	97.00	2978.23	9.83	9.83	Ν	7.38	W	12.29	323.09	1.12	-0.72	-19.59
30	3074.00	2.60	348.30	95.00	3073.15	13.50	13.50	Ν	8.76	W	16.09	327.04	0.94	0.42	20.21
31	3170.00	3.50	353.30	96.00	3169.01	18.55	18.55	Ν	9.54	W	20.86	332.78	0.98	0.94	5.21
32	3266.00	2.50	346.90	96.00	3264.88	23.50	23.50	Ν	10.36	W	25.68	336.21	1.10	-1.04	-6.67
33	3362.00	2.60	347.00	96.00	3360.79	27.66	27.66	Ν	11.32	W	29.88	337.74	0.10	0.10	0.10
34	3459.00	3.40	351.50	97.00	3457.65	32.65	32.65	Ν	12.24	W	34.87	339.45	0.86	0.82	4.64
35	3555.00	2.20	339.70	96.00	3553.54	37.19	37.19	Ν	13.30	W	39.50	340.32	1.38	-1.25	-12.29

EP ENERGY*

EP Energy Job Number: Calculation Method Minimum Curvature Company: Well: Karren Trust 4-30C4 0.00 KB Mag Decl.: **Proposed Azimuth** Duchesne, UT Dir Driller: Location: **Depth Reference** Precision 406 Gyro/MWD Rig: MWD Eng: Tie Into:

Cumiou	Cumicou	la alia a		Cauraa	True Vertical	Vartical	Cod	- u -	linatas	1	Clas		Doglog	Build	Walk
Survey	Survey	Inclina-	Λ - imusth	Course		Vertical	N/S	ora	linates E/W		Clos		Dogleg	Rate	Rate
Number	Depth	tion	Azimuth	Length	Depth	Section						Direction	,		
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	+	(ft)		(ft)	Azimuth	,	(d/100')	(d/100')
36	3651.00	2.80	349.90	96.00	3649.45	41.23	41.23 N		14.35	W	43.65	340.81	0.78	0.63	10.63
37	3747.00	3.20	4.30	96.00	3745.32	46.21	46.21 N	_	14.56	W	48.45	342.51	0.89	0.42	-360.00
38	3844.00	2.20	0.90	97.00	3842.21	50.77	50.77 N		14.33	W	52.75	344.24	1.04	-1.03	-3.51
39	3939.00	2.20	17.90	95.00	3937.14	54.33	54.33 N		13.74	W	56.04	345.81	0.68	0.00	17.89
40	4034.00	2.80	16.30	95.00	4032.05	58.29	58.29 N	_	12.53	W	59.62	347.87	0.64	0.63	-1.68
41	4130.00	3.10	359.10	96.00	4127.92	63.13	63.13 N		11.91	W	64.25	349.32	0.97	0.31	357.08
42	4226.00	1.90	350.10	96.00	4223.83	67.30	67.30 N		12.23	W	68.40	349.70	1.31	-1.25	-9.38
43	4322.00	2.50	31.60	96.00	4319.76	70.65	70.65 N		11.40	W	71.56	350.83	1.73	0.63	-331.77
44	4418.00	3.70	23.00	96.00	4415.62	75.28	75.28 N	_	9.09	W	75.83	353.11	1.34	1.25	-8.96
45	4515.00	1.80	30.70	97.00	4512.51	79.48	79.48 N	_	7.09	W	79.79	354.90	1.99	-1.96	7.94
46	4610.00	2.50	35.20	95.00	4607.44	82.45	82.45 N		5.14	W	82.61	356.43	0.76	0.74	4.74
47	4706.00	2.70	34.30	96.00	4703.34	86.03	86.03 N		2.66	W	86.07	358.23	0.21	0.21	-0.94
48	4803.00	2.10	23.20	97.00	4800.25	89.55	89.55 N		0.67	W	89.55	359.57	0.78	-0.62	-11.44
49	4899.00	1.60	331.00	96.00	4896.21	92.34	92.34 N	١	0.63	W	92.34	359.61	1.76	-0.52	320.63
50	4996.00	1.50	302.50	97.00	4993.18	94.21	94.21 N		2.35	W	94.24	358.57	0.79	-0.10	-29.38
51	5092.00	1.70	269.90	96.00	5089.14	94.88	94.88 N		4.84	W	95.00	357.08	0.96	0.21	-33.96
52	5188.00	1.70	261.20	96.00	5185.10	94.66	94.66 N		7.67	W	94.97	355.37	0.27	0.00	-9.06
53	5284.00	1.70	256.90	96.00	5281.06	94.12	94.12 N	٧	10.46	W	94.70	353.66	0.13	0.00	-4.48
54	5381.00	2.00	244.00	97.00	5378.01	93.05	93.05 N	7	13.38	W	94.01	351.81	0.53	0.31	-13.30
55	5476.00	1.90	225.70	95.00	5472.95	91.22	91.22 N	7	16.00	W	92.62	350.05	0.66	-0.11	-19.26
56	5573.00	2.40	214.20	97.00	5569.88	88.42	88.42 N	7	18.29	W	90.29	348.31	0.68	0.52	-11.86
57	5667.00	2.70	209.00	94.00	5663.79	84.86	84.86 N	7	20.47	W	87.29	346.44	0.40	0.32	-5.53
58	5764.00	2.90	207.80	97.00	5760.68	80.69	80.69 N	7	22.73	W	83.83	344.27	0.21	0.21	-1.24
59	5861.00	2.90	203.40	97.00	5857.55	76.27	76.27 N	7	24.84	W	80.21	341.96	0.23	0.00	-4.54
60	5955.00	3.10	206.10	94.00	5951.42	71.80	71.80 N	7	26.91	W	76.68	339.46	0.26	0.21	2.87
61	6052.00	2.20	223.80	97.00	6048.32	68.10	68.10 N	7	29.35	W	74.16	336.69	1.24	-0.93	18.25
62	6148.00	2.90	212.20	96.00	6144.22	64.72	64.72 N	7	31.92	W	72.16	333.75	0.90	0.73	-12.08
63	6244.00	3.20	208.90	96.00	6240.09	60.32	60.32 N	7	34.51	W	69.49	330.22	0.36	0.31	-3.44
64	6340.00	1.80	205.00	96.00	6335.99	56.60	56.60 N	7	36.44	W	67.32	327.23	1.47	-1.46	-4.06
65	6436.00	2.10	196.50	96.00	6431.94	53.55	53.55 N	1	37.58	W	65.42	324.94	0.43	0.31	-8.85
66	6532.00	2.90	193.20	96.00	6527.85	49.50	49.50 N	V	38.63	W	62.79	322.03	0.85	0.83	-3.44
67	6628.00	3.20	190.80	96.00	6623.71	44.50	44.50 N	V	39.69	W	59.63	318.27	0.34	0.31	-2.50
68	6725.00	2.40	201.30	97.00	6720.59	39.95	39.95 N	1	40.93	W	57.20	314.30	0.98	-0.82	10.82
69	6820.00	3.10	196.70	95.00	6815.48	35.64	35.64 N	1	42.39	W	55.38	310.05	0.77	0.74	-4.84
70	6917.00	2.90	195.70	97.00	6912.35	30.76	30.76 N	1	43.81	W	53.53	305.08	0.21	-0.21	-1.03
71	7013.00	3.20	193.20	96.00	7008.22	25.82	25.82 N	V	45.08	W	51.95	299.80	0.34	0.31	-2.60
72	7109.00	2.50	205.10	96.00	7104.10	21.31	21.31 N	V	46.58	W	51.22	294.59	0.95	-0.73	12.40

EP ENERGY*

EP Energy Job Number: Calculation Method Minimum Curvature Company: Well: Karren Trust 4-30C4 0.00 KB Mag Decl.: **Proposed Azimuth** Duchesne, UT Dir Driller: Location: **Depth Reference** Precision 406 Gyro/MWD Rig: MWD Eng: Tie Into:

0	0	Liner		0	T \/('1)	Mantal			P t		01		Dl	D. H.I	147 - H
Survey	Survey	Inclina-	Λ —: t la	Course	True Vertical	Vertical		oorرآ	dinates		Clos		Dogleg	Build	Walk
Number	Depth	tion	Azimuth	Length	Depth	Section	N/S		E/W		Distance	Direction	,	Rate	Rate
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)		(ft)		(ft)	Azimuth	,	(d/100')	(d/100')
73	7205.00	3.20	197.00	96.00	7199.98	16.85	16.85	N	48.25	W	51.11	289.25	0.84	0.73	-8.44
74	7301.00	2.10	168.80	96.00	7295.88	12.57	12.57	N	48.69	W	50.29	284.47	1.74	-1.15	-29.38
75	7397.00	2.90	175.30	96.00	7391.79	8.42	8.42	Ν	48.15	W	48.88	279.92	0.88	0.83	6.77
76	7493.00	2.40	162.30	96.00	7487.68	4.08	4.08	N	47.34	W	47.52	274.93	0.81	-0.52	-13.54
77	7589.00	3.30	168.30	96.00	7583.56	-0.54	0.54	S	46.17	W	46.17	269.34	0.99	0.94	6.25
78	7686.00	2.70	171.80	97.00	7680.43	-5.53	5.53	S	45.28	W	45.62	263.04	0.65	-0.62	3.61
79	7782.00	3.30	172.40	96.00	7776.30	-10.51	10.51	S	44.59	W	45.81	256.74	0.63	0.63	0.62
80	7878.00	2.70	151.60	96.00	7872.17	-15.24	15.24	S	43.15	W	45.76	250.55	1.28	-0.63	-21.67
81	7974.00	3.30	167.20	96.00	7968.04	-19.92	19.92	S	41.46	W	46.00	244.34	1.05	0.63	16.25
82	8070.00	1.70	180.90	96.00	8063.95	-24.04	24.04	S	40.87	W	47.42	239.54	1.77	-1.67	14.27
83	8166.00	0.70	116.50	96.00	8159.93	-25.72	25.72	S	40.37	W	47.87	237.50	1.60	-1.04	-67.08
84	8262.00	2.60	171.60	96.00	8255.89	-28.14	28.14	S	39.53	W	48.52	234.55	2.37	1.98	57.40
85	8358.00	1.60	154.70	96.00	8351.82	-31.51	31.51	S	38.64	W	49.85	230.81	1.21	-1.04	-17.60
86	8400.00	1.36	148.02	42.00	8393.81	-32.46	32.46	S	38.12	W	50.07	229.59	0.71	-0.58	-15.90
87	8500.00	1.16	154.83	100.00	8493.78	-34.38	34.38	S	37.07	W	50.55	227.15	0.24	-0.19	6.81
88	8600.00	1.28	161.14	100.00	8593.76	-36.35	36.35	S	36.27	W	51.35	224.94	0.17	0.11	6.30
89	8700.00	1.35	176.55	100.00	8693.73	-38.58	38.58	S	35.84	W	52.66	222.90	0.36	0.08	15.41
90	8800.00	1.51	178.32	100.00	8793.70	-41.07	41.07	S	35.73	W	54.44	221.02	0.17	0.16	1.77
91	8900.00	1.83	193.65	100.00	8893.66	-43.94	43.94	S	36.07	W	56.85	219.38	0.55	0.32	15.34
92	9000.00	2.35	188.35	100.00	8993.59	-47.52	47.52	S	36.75	W	60.07	217.71	0.55	0.51	-5.30
93	9100.00	2.69	184.67	100.00	9093.50	-51.89	51.89	S	37.24	W	63.87	215.66	0.38	0.35	-3.68
94	9200.00	2.65	185.66	100.00	9193.39	-56.54	56.54	S	37.66	W	67.93	213.67	0.06	-0.04	0.99
95	9300.00	2.92	190.29	100.00	9293.27	-61.34	61.34	S	38.34	W	72.34	212.01	0.35	0.26	4.63
96	9400.00	2.63	192.17	100.00	9393.15	-66.09	66.09	S	39.28	W	76.88	210.72	0.30	-0.29	1.88
97	9500.00	2.85	193.24	100.00	9493.04	-70.75	70.75	S	40.33	W	81.44	209.68	0.23	0.23	1.07
98	9600.00	2.59	193.04	100.00	9592.93	-75.38	75.38	S	41.41	W	86.00	208.78	0.26	-0.26	-0.20
99	9700.00	2.75	190.75	100.00	9692.82	-79.94	79.94	S	42.37	W	90.47	207.92	0.19	0.16	-2.29
100	9800.00	2.57	187.59	100.00	9792.71	-84.51	84.51	S	43.11	W	94.87	207.03	0.23	-0.18	-3.15
101	9900.00	2.59	187.71	100.00	9892.61	-88.97	88.97	S	43.71	W	99.13	206.16	0.03	0.02	0.12
102	10000.00	2.75	186.59	100.00	9992.50	-93.59	93.59	S	44.29	W	103.54	205.32	0.16	0.15	-1.12
103	10100.00	2.75	182.94	100.00	10092.38	-98.37	98.37	S	44.69	W	108.04	204.43	0.17	0.00	-3.65
104	10200.00	2.62	184.07	100.00	10192.27	-103.05	103.05	S	44.97	W	112.43	203.58	0.14	-0.13	1.13
105	10300.00	2.42	180.00	100.00	10292.18	-107.44	107.44	S	45.13	W	116.54	202.79	0.27	-0.20	-4.06
106	10400.00	2.77	185.69	100.00	10392.08	-111.96	111.96	S	45.37	W	120.80	202.06	0.44	0.36	5.69
107	10500.00	2.86	182.95	100.00	10491.95	-116.86	116.86	S	45.74	W	125.49	201.38	0.16	0.09	-2.74
108	10600.00	2.54	185.08	100.00	10591.84	-121.55	121.55	S	46.07	W	129.99	200.76	0.34	-0.33	2.13
109	10700.00	2.63	182.08	100.00	10691.74	-126.05	126.05	S	46.35	W	134.30	200.19	0.16	0.09	-3.00

EP ENERGY*

EP Energy Job Number: Calculation Method Minimum Curvature Company: Well: Karren Trust 4-30C4 0.00 KB Mag Decl.: **Proposed Azimuth** Duchesne, UT Dir Driller: Location: **Depth Reference** Precision 406 Gyro/MWD Rig: MWD Eng: Tie Into:

Survey	Survey	Inclina-		Course	True Vertical	Vertical	Co	ord	linates		Clos	ure	Dogleg	Build	Walk
Numbe	er Depth	tion	Azimuth	Length	Depth	Section	N/S		E/W		Distance	Direction	Severity	Rate	Rate
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)		(ft)		(ft)	Azimuth	(d/100')	(d/100')	(d/100')
11	0 10800.00	2.64	184.78	100.00	10791.64	-130.63	130.63	S	46.62	W	138.70	199.64	0.13	0.02	2.71
11	1 10900.00	2.52	184.45	100.00	10891.53	-135.12	135.12	S	46.98	W	143.06	199.17	0.12	-0.12	-0.33
11	2 10925.00	2.70	186.65	25.00	10916.51	-136.26	136.26	S	47.09	W	144.17	199.07	0.81	0.70	8.78
11	3 11103.00	2.70	186.65	178.00	11094.31	-144.58	144.58	sT	48.06	W	152.36	198.39	0.00	0.00	0.00

CENTRAL DIVISION

ALTAMONT FIELD
KARREN TRUST 4-30C4
KARREN TRUST 4-30C4
DRILLING LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

CENTRAL DIVISION

1 General

Customer Information 1.1

Company	CENTRAL DIVISION
Representative	
Address	

1.2 **Well Information**

Well	KARREN TRUST 4-30C4									
Project	ALTAMONT FIELD	Site	KARREN TRUST 4-30C4							
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND							
Start date	4/13/2015 End date									
Spud Date/Time	4/15/2015	UWI	KARREN TRUST 4-30C4							
Active datum	KB @5,820.8ft (above Mean Sea Level)									
Afe	163172/53664 / KARREN TRUST 4-30C4									
No./Description										

2 Summary

2.1 **Operation Summary**

Date		Гime	Duratio	Phase	Activit	Sub	OP	MD from	Operation
	Sta	rt-End	n		у		Code	(ft)	
			(hr)						
3/27/2015	6:00	8:00	2.00	CASCOND	24		Р	0.0	SET 57' 20" CONDUCTOR, SET MOUSE HOLE @ 80'. ADDED RKB
									CORRECTION FOR PD 406.
	8:00	11:30	3.50	CASSURF	24		Р	57.0	DRILL 121/4" HOLE TO 2,137'. RAN 52 JTS 9-5/8" 40# N-80 LT&C
									TO 2,110'. FC @ 2,071' SHOE 2,110'. ADDED RKB CORRECTION FOR PD 406.
	11:30	14:30	3.00	CASSURF	25		Р	2.137.0	M&P PUMPED 20 BBLS H2O. 460 SXS (194 BBLS) VARICEM
								,	LEAD CMT @ 12 PPG, 2.37 YLD TAILED WITH 200 SXS (46.3
									BBLS) OF HALCEM CMT @ 14.3 PPG, 1.30 YIELD. RELEASED
									TOP PLUG. DISPLACED WITH 156 BBLS OF H2O @ 4 BPM.
									BUMPED PLUG @ 14:25HRS 3/27/15 WITH 1,078 PSI. 3/4 BBL
									BLED BACK, FLOATS HELD. GOOD RETURNS THROUGHOUT
	14:00	0.00	45.50	OAGGUDE	25			0.407.0	JOB.
4/40/0045	14:30 6:00	6:00	15.50	CASSURF	25		P P		WOC, NO FALL. RIG DOWN & CLEAR LOCATION.
4/13/2015	6:00	6:00	24.00	MIRO	01		Ρ	2,137.0	MOVE IN & RIG UP. 100% MOVED IN 65% RIGGED UP. RELEASED TRUCKS @ 20:00 HRS 4/12/15.
4/14/2015	6:00	21:00	15.00	MIRU	01		Р	2 137 0	PREP FLOOR & DERRICK. PU TDU. 100% RIGGED UP. RUN
4/14/2010	0.00	21.00	10.00	Will CO			·	2,107.0	STEAM LINE. PERFORM RIG INSPECTION. RIG ON RATE @ 21:00
									HRS 4/13/15.
	21:00	4:00	7.00	CASSURF	28		Р	2,137.0	NU 11" 10M BOPE & INSTALL FLOW LINE. PJSM. TORQUE BOLTS
									W/ WEATHERFORD. RU TEST UNIT.
	4:00	6:00	2.00	CASSURF	19		Р	2,137.0	TEST 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING
									BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED
									CHOKE MANIFOLD TO 250 / 10,000 PSI. HELD EACH TEST 10
4/15/2015	6:00	8:30	2.50	CASSURF	19		Р	2 137 0	MINUTES. TESTED 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING
4/15/2015	0.00	0.50	2.50	CASSUNI	13		, r	2,137.0	BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED
									CHOKE MANIFOLD TO 250 / 10.000 PSI, HELD EACH TEST 10
									MINUTES. MANUAL CHOKE VALVE FAILED.
	8:30	9:30	1.00	CASSURF	31		Р	2,137.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES. TEST GOOD.
	10:30	11:30	1.00	CASSURF	48		N	2,137.0	REMOVE CHOKE VALVE.
	11:30	13:30	2.00	CASSURF	14		Р	2,137.0	PU 8¾" BHA & RACK BACK.
	13:30	14:30	1.00	CASSURF	48		N	2,137.0	INSTALL CHOKE VALVE.
	14:30	17:00	2.50	CASSURF	19		Р	2,137.0	TESTED HCR & MANUAL CHOKE TO 250 / 5,000 PSI. HELD EACH
									TEST 10 MINUTES. INSTALL WEAR BUSHING.

CENTRAL DIVISION

Date		Γime art-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
	17:00	20:30	3.50	CASSURF	14		P	2.137.0	MU BIT & TIH WITH BHA, PU 4.5" DP TO 2,013'.
	20:30	21:30	1.00	CASSURF	17		Р	· · · · · · · · · · · · · · · · · · ·	S & C DRILL LINE.
	21:30	22:30	1.00	CASSURF	12		P		SERVICED RIG & TDU.
	22:30	23:30	1.00	CASSURF	43		N	,	CHANGE OUT HYDRAULIC RAM ON EXTEND BUSHING.
	22:30	0:30	2.00	CASSURF	32		P		DRILL OUT CMT, FE & 10'.
	0:30	1:00	0.50	CASSURF	33		P	· · · · · · · · · · · · · · · · · · ·	CBU & PERFORM FIT TO 14.8 EMW WITH 9.7 PPG MUD @ 570 PSI.
	1:00	6:00	5.00	DRLINT1	07		Р	2 147 0	DRILLED 2,147' - 2,645'. SPUD @ 1:00 4/15/15.
4/16/2015	6:00	7:00	1.00	DRLINT1	07		P		DRILLED 2,645' - 2,925'.
4/10/2013	7:00	7:30	0.50	DRLINT1	12		P		SERVICED RIG & TD.
	7:30	13:30	6.00	DRLINT1	07		P	· · · · · · · · · · · · · · · · · · ·	DRILLED 2,925' - 3,606'.
	13:30	14:00	0.50	DRLINT1	57		N		TROUBLE SHOOT RYAN MWD TOOLS.
	14:00				07		P		
	23:00	23:00	9.00	DRLINT1 DRLINT1	12		P		DRILLED 3,606' - 4,757'. SERVICED RIG & TD.
			0.50		07		P	· · · · · · · · · · · · · · · · · · ·	
4/47/0045	23:30	6:00	6.50	DRLINT1					DRILLED 4,757' - 5,750'.
4/17/2015	6:00	14:30	8.50	DRLINT1	07		Р		DRILLED F/ 5,750' T/ 6,545'.
	14:30	15:00	0.50	DRLINT1	12		P		SERVICED RIG & TD.
	15:00	3:00	12.00	DRLINT1	07		P -		DRILLED F/ 6,545' T/ 7,352'.
	3:00	3:30	0.50	DRLINT1	12		Р		SERVICED RIG & TD.
	3:30	6:00	2.50	DRLINT1	07		Р		DRILLED F/ 7,352' T/ 7,545'.
4/18/2015	6:00	15:00	9.00	DRLINT1	07		Р	7,545.0	DRILLED F/ 7,545' T/ 7,929'.
	15:00	15:30	0.50	DRLINT1	12		Р	7,929.0	SERVICED RIG & TD.
	15:30	3:00	11.50	DRLINT1	07		Р	7,929.0	DRILLED F/ 7,929' T/ 8,453'. INT TD @ 03:00 4/18/15. 22' FT UNSEEN SLIDE IN THE HOLE.
	3:00	4:30	1.50	DRLINT1	15		Р	8,453.0	SIMULATE CONNECTION. CIRC BU. MAX GAS 134 UNITS (3RD PARTY), 52 UNITS (PASON). CHECKED FLOW.
	4:30	6:00	1.50	DRLINT1	13		Р	8,453.0	WIPER TRIP.
4/19/2015	6:00	15:00	9.00	DRLINT1	13		Р	8,453.0	FINISH WIPER TRIP. FLOW CHECKS @ 2,100', 5,000', 8,453'. NO BACK REAMING ON TRIP.
	15:00	16:30	1.50	DRLINT1	15		Р	8,453.0	C & C MUD. PASON BU GAS = 4118 UNITS, 3 RD PARTY BU GAS = 2503 UNITS. CHECKED FLOW (NEG), PUMPED SLUG.
	16:30	0:00	7.50	DRLINT1	14		Р	8,453.0	L/D DP. CHECKED FLOW @ 6,000', 4,000', 2,000', 821'.
	0:00	0:30	0.50	DRLINT1	12		Р	8,453.0	CLEANED RIG FLOOR OF 4 1/2" EQUIPMENT.
	0:30	1:00	0.50	DRLINT1	42		Р	8,453.0	PULLED WEAR BUSHING, CHANGED OUT BAILS & ELEVATORS. REDUCED MW IN PITS F/ 9.9 PPG 45 VIS T/ 9.6 PPG 40 VIS.
	1:00	2:00	1.00	CASINT1	24		Р	8,453.0	PJSM. RU FRANKS CASING CREW & TORQUE TURN.
	2:00	6:00	4.00	CASINT1	24		Р	8,453.0	MU SHOE TRACK & TEST. RAN 47 JTS 7" 29# HCP-110 LT&C CSG TO 2,000'. BREAK CIRC EVERY 1,000'. CBU EVERY 2,000'.
4/20/2015	6:00	17:30	11.50	CASINT1	24		Р	8,453.0	RAN 203 JTS 7" 20# HCP-110 LT&C CSG TO 8,453'. FLOAT COLLAR @ 8,410', MARKER JT @ 6,503'. CBU @ SHOE. BREAK CIRC EVERY 1,000' & CIRC BU 2,000'. NO LOSSES. PU TAG JT TAG BOTTOM @ 8,453'. LD TAG JT. SPACED OUT W/ 10' PUP JT & LANDING JT.
	17:30	19:00	1.50	CASINT1	15		Р	8,453.0	C & C MUD @ 1 - 6 BPM . MAX GAS 2500 UNITS. NO FLARE. NO LOSSES. FINAL CIRC PRESSURE 460 PSI. HELD PJSM FOR CEMENT OPS.

Date		ime rt-End	Duratio n	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
	10:00	00.00	(hr)	OAGINITA	05			0.450.0	
	19:00	22:30	3.50	CASINT1	25		P	8,453.0	RU HES CEMENTERS. PUMPED 47 BBLS 10.0 PPG TUNED SPACER. 670 SX (228.0 BBLS) EXTENDACEM LEAD CMT @ 12.5 PPG, 1.91 YLD TAILED WITH 305 SXS (89 BBLS) OF EXPANDACHEM CMT @ 13 PPG, 1.64 YIELD. RELEASED TOP PLUG. DISPLACED WITH 312 BBLS OF 9.7 PPG MUD @ 6 - 3 BPM. BUMPED PLUG @ 21:33 HRS 4/19/15 WITH 2200 PSI. 2.5 BBL BLED BACK, FLOATS HELD. RD CEMENTERS. RETURNS SLOWED LAST 90 BBLS DISP, TOTAL LOST 60 BBLS DURRING CMT OPS. 20 BBLS SPACER CAME BACK TO SURFACE. EST TOC 1,800'.
	22:30	23:30	1.00	CASINT1	27		Р	8,453.0	LD LANDING JT. INSTALLED & TEST PACK-OFF TO 5,000 PSI FOR 15 MIN.
	23:30	0:30	1.00	CASINT1	31		Р	8,453.0	TESTED CASING TO 2,500 PSI HOLD FOR FOR 30 MINUTES.
	0:30	2:30	2.00	CASINT1	42		Р	8,453.0	CHANGED OUT IBOP, TDU SAVER SUB TO 4" XT-39, BAILS, & 4" ELEVATORS.
	2:30	6:00	3.50	CASINT1	19		Р	8,453.0	PJSM. RU WEATHERFORD TESTERS & TESTED 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HOLD EACH TEST 10 MINUTES.
4/21/2015	6:00	8:30	2.50	CASINT1	19		Р	8,453.0	PJSM. RU WEATHERFORD TESTERS & TESTED 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HOLD EACH TEST 10 MINUTES.
	8:30	9:30	1.00	CASINT1	12		Р	8,453.0	SERVICE RIG & TD. CLEANED FLOOR & PREPARED TO PU BHA & 4" DP.
	9:30	19:00	9.50	CASINT1	14		Р	8,453.0	PU BHA & 4" XT 39 DP. TIH T/ 8,300'.
	19:00	20:30	1.50	CASINT1	42		Р	8,453.0	S & C DRILL LINE
	20:30	21:00	0.50	CASINT1	31		Р	8,453.0	PRE FIT CASING TEST (1930 PSI).
	21:00	22:30	1.50	CASINT1	32		Р	8,453.0	DRILL FE & CMT.
	22:30	23:00	0.50	DRLPRD	07		Р	-	DRILLED F/ 8,453' T/ 8,463'.
	23:00	23:30	0.50	DRLPRD	15		Р		CIRC BU.
	23:30	0:00	0.50	DRLPRD	33		Р	8,463.0	PREFORMED FIT. 14.8 PPG EMW. PUMPED INTO FORMATION @ 1680 PSI W/ 11.0 PPG MW.
	0:00	4:00	4.00	DRLPRD	07		Р	-	DRILLED F/ 8,463' T/ 8,900'.
	4:00	4:30	0.50	DRLPRD	15		Р	8,900.0	CIRC BU F/ WIRELINE SURVEY.
	4:30	5:30	1.00	DRLPRD	11		Р	8,900.0	RUN WIRELINE SURVEY @ 8869'.
	5:30	6:00	0.50	DRLPRD	07		Р		DRILLED F/ 8,900' T/ 8,995'.
4/22/2015	6:00	14:00	8.00	DRLPRD	07		Р	· · · · · · · · · · · · · · · · · · ·	DRILLED F/ 8,995' T/ 9,751'.
	14:00	14:30	0.50	DRLPRD	12		Р		SERVICED RIG & TD.
	14:30	20:00	5.50	DRLPRD	07		P		DRILLED F/ 9,721' T/ 10,324'.
	20:00	20:30	0.50	DRLPRD	12		Р		SERVICED RIG & TD.
	20:30	6:00	9.50	DRLPRD	07		P		DRILLED F/ 10,324' T/ 11,103'. TD @ 06:00 HRS 4-22-15.
4/23/2015	6:00	7:00	1.00	DRLPRD	15		Р	•	C & C MUD. RMW F/ 11.9 PPG T/ 12.1 PPG. FLOW CK (NEG).
	7:00	11:00 14:30	3.50	DRLPRD	13 15		P P	· · · · · · · · · · · · · · · · · · ·	WIPER TRIP TO 8,450'. C & C MUD. MAX GAS 6944 UNITS (PASON), 2429 UNITS (MUD LOGGER), MUD CUT 11.4 PPG F/ 12.1 PPG RAISE MW F/ 12.1 PPG T 12.3 PPG. VIS 45 FLOW CK.
	14:30	20:30	6.00	DRLPRD	13		Р	11,103.0	TOH TO LOG & RUN 5" LINER. FLOW CK @ 11,103, 8500, 6000 3500, LD BIT STAB'S & PONY COLLAR
	20:30	21:00	0.50	DRLPRD	13		Р	11,103.0	CLEANED RIG FLOOR & CAT WALK.
	21:00	3:00	6.00	EVLPRD	22		P	•	PJSM. RU & RUN HALLIBURTONS ULTRA SLIM COMBO. LOGGER'S DEPTH 11,100' LOG UP TO 2000'. RD HES LOGGING UNIT. REDUCED MW F/ 12.3 PPG T/ 11.9 PPG 40 VIS WHILE LOGGING.
	3:00	4:00	1.00	CASPRD1	24		Р	11,103.0	PJSM. RU FRANKS CSG CREW & TORQUE TURN.

CENTRAL DIVISION

Date	1	Гіте	Duratio	Phase	Activit	Sub	OP	MD from	Operation
	Sta	art-End	n (hr)		у		Code	(ft)	
	4:00	6:00	2.00	CASPRD1	24		Р	11,103.0	MADE UP 5" 18# HCP110 STL SHOE TRACK. TESTED SHOE TRACK. PU 5" 18# HCP110 STL. 886' AT REPORT TIME. VAM REP (CLIFF) SUPERVISING LINER OPERATIONS.
4/24/2015	6:00	22:30	16.50	CASPRD1	13		Р	11,103.0	FINISH PU 5" LINER. TOTAL LINER 2,790'. TIH W/ 5" LINER ON 4" DP @ 70 FPM. FILL EVERY 1,000'. & CIRC BU EVERY 2,000' TAG BOTTOM W/ 10 K. SPACE OUT & RU CEMENT HEAD.
	22:30	1:30	3.00	CASPRD1	15		Р	11,103.0	CIRC 2X BU. INITIAL RATE 1.1 BPM, INCREASED TO 2.5 BPM, PRESSURE LEVELED OFF AFTER 1 BU. MAX GAS 8114 UNITS PASON. 10.7 PPG MC. BG GAS 376 UNITS. FINAL CIRC PRESSURE 421 PSI @ 2.5 BPM. NO LOSSES DURING CIRCULATION. HELD PJSM ON CEMENT OPERATIONS.
	1:30	3:30	2.00	CASPRD1	25		P	11,103.0	RU HES & TESTED LINES TO 9,500 PSI. PUMPED 20 BBLS 12.2 PPG TUNED SPACER & 215 SKS (66 BBLS) 14.2 PPG WITH 1.52 YIELD EXPANDACEM CMT. WASHED LINES. DROPPED DP DART. PUMPED 60 BBLS H2O WITH 2% KCL 0.1 % BIOCIDE, 74 BBLS 11.9 PPG MUD. BUMPED PLUG WITH 2800 PSI @ 04:00 HRS 4/24/15. CHECKED FLOATS, FLOATS HELD, 1.25 BBLS BLED BACK. NO LOSSES DURING CMT OPS. EST TOC 8,313'.
	3:30	4:30	1.00	CASPRD1	25		Р	11,103.0	RELEASED BALL, RUPTURE DISC @ 5200 PSI. PUMPED 45 BBLS, PRESSURED TO 7900 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 80K OVERPULL. SAT DOWN 90K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 11,098, FC @11,047', LC @ 10,998'. TOL @ 8307'. 146' OF LAP. TOTAL LINER 2790'. MARKER JT TOPS @ 10,079' & 9,085'.
	4:30	5:30	1.00	CASPRD1	15		Р	11,103.0	PULLED UP TO TOL. OBSERVED 2 OVERPULLS OF 10K THROUGH SEALS. CIRC 1.5 TIMES ANNULAR VOLUME. 20 BBLS WEIGHTED SPACER & 20 BBLS WEIGHTED CEMENT TO SURFACE. CHECKED FLOW (NEG). POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN. TEST OK.
	5:30	6:00	0.50	CASPRD1	15		Р	11,103.0	DISPLACING MUD OUT OF THE HOLE WITH WATER.
4/25/2015	6:00	8:00	2.00	CASPRD1	15		Р	11,103.0	PUMPED 350 BBLS H2O WITH NO ADDITIVES, 250 BBLS H2O WITH 2% KCL 0.1 % BIOCIDE TILL CLEAN RETURNS. RD HES.
	8:00	19:30	11.50	CASPRD1	14		Р	11,103.0	LD DP & LAY DOWN LINER SITTING TOOL. RUN DC'S & DP OUT OF DERRICK . LD DP & DC'S. CLEANED MUD TANKS.
	19:30	22:30	3.00	CASPRD1	29		Р	11,103.0	PJSM. ND BOPE.
	22:30	0:30	2.00	CASPRD1	30		Р	11,103.0	INSTALLED TBG HEAD & FRAC VALVE. TESTED HEAD TO 5,000 PSI FOR 10MIN. RIG RELEASED @ 00:30 HRS 4-25-15.
	0:30	6:00	5.50	RDMO	02		Р	11,103.0	PREPARED RIG TO BE MOVED TO THE MILLETT 2-14C5
4/26/2015	6:00	6:00	24.00	RDMO	02		Р	11,103.0	PREPARED PD 406 TO BE MOVED TO THE MILLETT 2-14C5.

CENTRAL DIVISION

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2.1	Operation Summary

CENTRAL DIVISION

ALTAMONT FIELD
KARREN TRUST 4-30C4
KARREN TRUST 4-30C4
COMPLETION LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

CENTRAL DIVISION

1 General

Customer Information 1.1

Company	CENTRAL DIVISION
Representative	
Address	

1.2 **Well Information**

Well	KARREN TRUST 4-30C4									
Project	ALTAMONT FIELD	Site	KARREN TRUST 4-30C4							
Rig Name/No.		Event	COMPLETION LAND							
Start date	5/1/2015	End date								
Spud Date/Time	4/15/2015	15/2015 UWI KARREN TRUST 4-30C4								
Active datum	KB @5,820.8ft (above Mean Sea Level)									
Afe	163172/53664 / KARREN TRUST 4-30C4									
No./Description										

2 Summary

2.1 **Operation Summary**

Date		Γime irt-End	Duratio n	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
5/1/2015	11:00	13:30	(hr) 2.50	MIRU	01		Р		MOVE RIG TO LOCATION. SPOT CATWALK & PIPE RACKS. UNLOAD TBG. NU BOP. RU RIG.
	13:30	18:30	5.00	WOR	24		Р		TIH W/ 4-1/8* OD BIT, BIT SUB, 90 JTS 2-3/8"EUE TBG, X-OVER & 165 JTS 2-7/8"EUE TBG. SDFN
5/2/2015	6:00	7:00	1.00	WOR	28		Р		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; R/U POWER SWIVEL HAND PLACEMENT
	7:00	10:30	3.50	WOR	39		Р		CONTINUE TIH TAG AT 10931' TMD R/U POWER SWIVEL ESTABLISH CIRC C/O TO 11003' TMD CIRC WELL CLEAN R/D POWER SWIVLE
	10:30	15:40	5.17	WOR	39		Р		TOH L/D 250 JTS OF 2 7/8" TBG CHANGE HANDLING TOOLS 90-JTS OF 2 3/8" L/D BIT AND BIT SUB SECURE WELL CLOSE 7" MASTER VALVE
	15:40	15:40	0.00	WOR	16		Р		R/D FLOOR N/D BOPE N/U NIGHT CAP AND 7" MASTER VLAVE RDMO
5/5/2015	6:00	7:00	1.00	WLWORK	28		Р		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) TRIP HAZARDS
	7:00	13:00	6.00	WLWORK	18		Р		R/U WIRELINE TRUCK & HOT OIL TRUCK, FILL CSG W/ 25 BBLS 2% KCL, RIH W/ CBL TOOL TO 11,100', PRESSURE UP TO 4000 PSI, POOH RUNNING CBL TO 100', BLEED OFF PRESSURE, R/D WIRELINE TRUCK & HOTOILER, SECURE WELL, SDFD
5/8/2015	6:00	7:30	1.50	WHDTRE	28		Р		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING UP FRAC VALVES. FILLED OUT JSA.
	7:30	12:30	5.00	WHDTRE	16		Р		PRESSURE TEST CSG@ 9000 PSI FOR 30 MINS. HELD. NU FRAC VALVES AND PRESSURE TEST @ 10000 PSI HELD.
5/9/2015	6:00	7:30	1.50	WLWORK	28		Р		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP WIRELINE (OVERHEAD HAZARDS). FILLED OUT JSA.
	7:30	11:00	3.50	WLWORK	21		P		MIRU WIRELINE PERFORATED STAGE #1 FROM 10946' TO 10601'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 900 PSI. RD WIRELINE. CLOSED IN WELL CLOSED AND LOCKED FRAC VALVES CLOSED CSG VALVES AND INSTALL NIGHT CAPS.

CENTRAL DIVISION

Date		Гіте	Duratio	Phase	Activit	Sub	ОР	MD from	Operation
		rt-End	n		y		Code	(ft)	
			(hr)					. ,	
5/10/2015	6:00	7:30	1.50	SITEPRE	28		Р		CREW TRAVEL HELD SAFETY MEETING ON TRANSFERRING
									WATER. FILLED OUT JSA.
	7:30	13:30	6.00	SITEPRE	18		Р		TRANSFERED WATER THRU CHOLRINE DIOXIDE UNIT. AND STARTED HEATING WATER.
	13:30	18:00	4.50	SITEPRE	18		Р		FINISHED HEATING WATER AND REFILL STAGING AREA.
5/11/2015	6:00	6:30	0.50	SITEPRE	28		Р		CREW TRAVEL HELD SAFETY MEETING ON HEATING WATER.
									FILLED OUT JSA.
	6:30	18:00	11.50	SITEPRE	18		Р		FINISHED HEATING FRAC TANKS AND MIRU FRAC EQUIPMENT.
5/12/2015	6:00	7:00	1.00	MIRU	28		Р		HELD SAFETY MEETING ON PUMPING HIGH PRESSURE. FILLED OUT JSA AND STARTED EQUIPMENT.
	7:00	9:00	2.00	STG01	35		Р		PRESSURE TEST LINES @ 9650 PSI. OPENED UP WELL W/ 274 PSI. BREAK DOWN STAGE # 1 PERFS @ 4431 PSI, 9.8 BPM, 8 BBLS PUMPED. EST INJ RATE 35 BPM, 5100 PSI. STEP RATE TEST 26 OPEN PERFS. I.S.I.P. 3963 PSI. F.G80, 5 MIN 3803 PSI, 10 MIN 3757 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3100 LBS 100 MESH IN 1/2 PPG STAGE AND 150400 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 65.6 BPM, MAX RATE 75.9 BPM. AVG PRESS 4951, MAX PRESS 7251. I.S.I.P. 4263 PSI. F.G83. SHUT WELL IN 3928 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	9:00	14:00	5.00	STG02	26		N		RU WIRELINE RIH SET CBP @ 10550', UNABLE TO RELEASE FROM CBP.PERFORATE CSG FROM 10438.5' TO 10440.5'. WORKED PERF GUN FREE. PULLED UP TO 10059 GOT STUCK, WORKRED GUN FREE. POOH W/ GUN AND SETTING TOOL HAD SAND IN SETTING TOOL AND PERF GUNS.RIH W/ OLD PERF GUN. TAGGED @ 10548' WAS STICKY. POOH.
	14:00	16:00	2.00	STG02	21		Р		RIH SET CBP @ 10428' W/ 4200 PSI. PERFORATED STAGE # 2 FROM 10519" TO 10209'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4200 PSI. FINAL PRESSURE 3500 PSI. TURNED WELL OVER TO FRAC CREW.
	16:00	17:30	1.50	STG02	35		Р		PRESSURE TEST LINES @ 9350 PSI. OPENED UP WELL W/ 3197 PSI. BREAK DOWN STAGE # 2 PERFS @ 4528 PSI, 10 BPM, 12 BBLS PUMPED. EST INJ RATE 34.8 BPM, 5169 PSI. STEP RATE TEST 14 OPEN PERFS. I.S.I.P. 3755 PSI. F.G795, 5 MIN 3517 PSI, 10 MIN 3483 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3100 LBS 100 MESH IN 1/2 PPG STAGE AND 150400 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 66.8 BPM, MAX RATE 75.6 BPM. AVG PRESS 4897, MAX PRESS 7200. I.S.I.P. 3466 PSI. F.G767. SHUT WELL IN 3883 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	17:30	20:00	2.50	STG03	21		P		RIH W/ WIRELINE CBP WAS FLOATING IN GEL, PULLED ABOVE LINER TOP WAIT 1 HR. RIH SET CBP @ 10195' W/ 4000 PSI. PERFORATED STAGE # 3 FROM 10180' TO 9870'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4000 PSI. FINAL PRESSURE 3900 PSI. SHUT IN WELL. CLOSED AND LOCKED ALL FRAC VALVES. CLOSED IN SURFACE CSG W/ TWO VALVES.
5/13/2015	6:00	6:30	0.50	STG03	28		Р		HELD SAFETY MEETING ON PUMPING HIGH PRESSURE. BODY POSITIONING. FILLED OUT JSA

CENTRAL DIVISION

Date	Time	Duratio	Phase	Activit	Sub	ОР	MD from	Operation
	Start-End	n (hr)		У		Code	(ft)	
	6:30 8:00		STG03	35		Р		PRESSURE TEST LINES @ 9416 PSI. OPENED UP WELL W/ 3860 PSI. BREAK DOWN STAGE # 3 PERFS @ 4897 PSI, 9.9 BPM, 5 BBLS PUMPED. EST INJ RATE 36.1 BPM, 4885 PSI. STEP RATE TEST 20 OPEN PERFS. I.S.I.P. 4139 PSI. F.G85, 5 MIN 3977 PSI, 10 MIN 3906 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150500 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.1 BPM, MAX RATE 75.9 BPM. AVG PRESS 5156, MAX PRESS 7024. I.S.I.P. 3572 PSI. F.G789. SHUT WELL IN 3881 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	8:00 10:0	0 2.00	STG04	21		Р		RIH W/ WIRELINE CBP WAS FLOATING IN GEL, PULLED ABOVE LINER TOP WAIT 40 MINS. RIH SET CBP @ 9854' W/ 4000 PSI. PERFORATED STAGE # 4 FROM 9839' TO 9605'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4000 PSI. FINAL PRESSURE 4000 PSI. TURNED WELL OVER TO FRAC CREW
	10:00 11:3	0 1.50	STG04	35		Р		PRESSURE TEST LINES @ 9514 PSI. OPENED UP WELL W/ 3935 PSI. BREAK DOWN STAGE # 4 PERFS @ 5417 PSI, 9.8 BPM, 9 BBLS PUMPED. EST INJ RATE 32.5 BPM, 4720 PSI. STEP RATE TEST 20 OPEN PERFS. I.S.I.P. 4020 PSI. F.G85, 5 MIN 3971 PSI, 10 MIN 3944 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150600 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 73.3 BPM, MAX RATE 75.5 BPM. AVG PRESS 4896, MAX PRESS 6393. I.S.I.P. 4110 PSI. F.G856. SHUT WELL IN 3887 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	11:30 12:4	5 1.25	STG05	21		P		RIH SET CBP @ 9588' W/ 4100 PSI. PERFORATED STAGE # 5 FROM 9573' TO 9327'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 21 NET FT. 63 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4100 PSI. FINAL PRESSURE 3800 PSI. TURNED WELL OVER TO FRAC CREW
	12:45 14:1	5 1.50	STG05	35		Р		PRESSURE TEST LINES @ 9557 PSI. OPENED UP WELL W/ 3750 PSI. BREAK DOWN STAGE # 5 PERFS @ 4112 PSI, 9.7 BPM, 9 BBLS PUMPED. EST INJ RATE 34.5 BPM, 4400 PSI. STEP RATE TEST 23 OPEN PERFS. I.S.I.P. 3663 PSI. F.G82, 5 MIN 3554 PSI, 10 MIN 3519 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150700 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 73.6 BPM, MAX RATE 75.5 BPM. AVG PRESS 4886, MAX PRESS 6016. I.S.I.P. 3507 PSI. F.G804. SHUT WELL IN 3915 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	14:15 15:3	0 1.25	STG06	21		P		RIH SET CBP @ 9312' W/ 4000 PSI. PERFORATED STAGE # 6 FROM 9297' TO 9073'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 22 NET FT. 66 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4000 PSI. FINAL PRESSURE 3200 PSI. TURNED WELL OVER TO FRAC CREW

Date		ime rt-End	Duratio n	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
	15:30	16:45	(hr) 1.25	STG06	35		P		PRESSURE TEST LINES @ 9550 PSI. OPENED UP WELL W/ 3414 PSI. BREAK DOWN STAGE # 6 PERFS @ 5916 PSI, 19.7 BPM, 20 BBLS PUMPED. EST INJ RATE 35 BPM, 4834 PSI. STEP RATE TEST 16 OPEN PERFS. I.S.I.P. 3652 PSI. F.G83, 5 MIN 3053 PSI, 10 MIN 2930 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150620 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.4 BPM, MAX RATE 76 BPM. AVG PRESS 4964, MAX PRESS 6412. I.S.I.P. 3401 PSI. F.G803. SHUT WELL IN 3876 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	16:45	19:30	2.75	STG07	21		Р		RIH W/ WIRELINE CBP WAS FLOATING IN GEL, PULLED ABOVE LINER TOP WAIT 40 MINS. RIH SET CBP @ 9054' W/ 2700 PSI. PERFORATED STAGE # 7 FROM 9039' TO 8783'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 2700 PSI. FINAL PRESSURE 2500 PSI. SHUT IN WELL. CLOSED AND LOCKED ALL FRAC VALVES. CLOSED IN SURFACE CSG W/ TWO VALVES.
5/14/2015	6:00	7:30	1.50	STG07	28		Р		CREW TRAVEL HELD SAFETY MEETING ON PUMPING HIGH PRESSURE AND TESTING LINES. FILLED OUT JSA
	7:30	9:15	1.75	STG07	35		Р		PRESSURE TEST LINES @ 9569 PSI. OPENED UP WELL W/ 1815 PSI. BREAK DOWN STAGE # 7 PERFS @ 3369 PSI, 9.9 BPM, 16 BBLS PUMPED. EST INJ RATE 35.1 BPM, 3950 PSI. STEP RATE TEST 20 OPEN PERFS. I.S.I.P. 2991 PSI. F.G77, 5 MIN 2364 PSI, 10 MIN 2159 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150650 LBS WHITE 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.3 BPM, MAX RATE 75.6 BPM. AVG PRESS 4149, MAX PRESS 5134. I.S.I.P. 3605 PSI. F.G838. SHUT WELL IN 3981 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	9:15	11:15	2.00	STG08	21		Р		RIH SET CBP @ 8761' W/ 2900 PSI. PERFORATED STAGE # 8 FROM 8746' TO 8587'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 04-MAY-2015. 15 NET FT. 45 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 2900 PSI. FINAL PRESSURE 2800 PSI. TURNED WELL OVER TO FRAC CREW
	11:15	12:45	1.50	STG08	35		P		PRESSURE TEST LINES @ 9495 PSI. OPENED UP WELL W/ 2645 PSI. BREAK DOWN STAGE # 8 PERFS @ 3329 PSI, 10 BPM, 10 BBLS PUMPED. EST INJ RATE 36 BPM, 3846 PSI. STEP RATE TEST 23 OPEN PERFS. I.S.I.P. 2971 PSI. F.G78, 5 MIN 2698 PSI, 10 MIN 2638 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 2800 LBS 100 MESH IN 1/2 PPG STAGE AND 150160 LBS WHITE 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.1 BPM, MAX RATE 75.8 BPM. AVG PRESS 4539, MAX PRESS 5655. I.S.I.P. 3277 PSI. F.G811. SHUT WELL IN 3948 BBLS TO RECOVER. CLOSED IN WELL CLOSED AND LOCKED ALL FRAC VALVES. CLOSED SURFACE CSG W/ 2 VALVES.
	12:45	16:30	3.75	RDMO	02		Р		RD FRAC EQUIPMENT AND MOVE OFF LOCATION.
5/15/2015	16:30 6:00	19:00 6:30	2.50 0.50	MIRU CTU	01 28		P P		MOVE IN AND PARTIALLY RU 2" COIL TUBING UNIT SDFN. CREW TRAVEL HELD SAFETY MEETING RIGGING UP COIL TBG
2.22.0	6:30	8:30	2.00	СТИ	18		Р		(PINCH POINTS). FILLED OUT JSA. FINISHED RIGGING UP COIL TUBING, MADE UP DRILLOUT ASSEMBLY W/ 4 1/8 JZ ROCK BIT. FUNCTION TEST MOTOR. PRESSURE TEST COIL, LUBRICATOR AND FLOWBACK LINES TO 9000 PSI. HELD.

CENTRAL DIVISION

Date	1	Гіте	Duratio	Phase	Activit	Sub	OP	MD from	Operation
	Sta	rt-End	n (hr)		у		Code	(ft)	
	8:30	20:30	12.00	СТU	10		Р		RIH PUMPING 1 BPM AND RETURNING 1 BPM, TO LINER TOP @ 8300'. INCRESED RATE TO PUMPING 2.5 BPM RETURNING 3.5 BPM. DRILLED OUT CBPs @ 8761', 9054', 9312', 9588', 9854', 10195', 10528' AND 10550'. CIRCULATE ON BTM FOR 1 HR, TOOH TO LINER TOP CICRCULATE FOR 1HR. TOOH . BUMPED UP.
	20:30	22:30	2.00	RDMO	02		Р		LD DRILLOUT ASSEMBLY, RD COIL TUBING, CLOSED TOP HCR VALVE INSTALLED NIGHT CAP. BLEW COIL TBG DRY. TURNED WELL OVER TO FLOWBACK CREW.
	22:30	22:35	0.08	FB	17		Р		OPEDED WELL @ 2500 PSI ON 12/64 CHOKE
	22:35	6:00	7.42	FB	19		Р		2200 PSI ON 12/64 CHOKE. RECOVERED 0 MCF, 0 BBLS OIL AND449 BBLS H20.
5/16/2015	6:00	6:30	0.50	FB	19		Р		HELD SAFETY MEETING ON FLOWBACK PROCEDURES FILLED OUT JSA,
	6:30	6:00	23.50	FB	19		Р		2000 PSI ON 12/64 CHOKE. RECOVERED 0 MCF, 0 BBLS OIL AND 1521 BBLS H20
5/17/2015	6:00	6:30	0.50	FB	28		Р		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
	6:30	6:00	23.50	FB	19		Р		1900 PSI ON 12/64 CHOKE. RECOVERED 38 MCF, 49 BBLS OIL AND 915 BBLS H20.
5/18/2015	6:00	6:30	0.50	FB	28		Р		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA
	6:30	6:00	23.50	FB	19		Р		1900 PSI ON 12/64 CHOKE. RECOVERED 122 MCF, 176 BBLS OIL AND 557 BBLS H20.
5/19/2015	6:00	7:30	1.50	WLWORK	28		Р		CREW TRAVEL HELD SAFETY MEETING ON WIRELINE SAFETY (OVERHEAD HAZARDS) FILLED OUT JSA.
	7:30	9:45	2.25	WLWORK	20		Р		RU WIRELINE. PRESSURE TEST LUBRICATOR TO 5000 PSI HELD, RIH SET PKR W/ PLUG CATCHER @ 8400' W/ 1900 PSI. SETTING TOOL DIDN'T SHEAR OFF PKR.
	9:45	12:30	2.75	WLWORK	20		N		BLED WELL DOWN TO 1100 PSI. SHUT IN WELL TRIED TO PULL OFF PKR. PRESSED UP TO 1900 ON CSG. TRIED WORKING SETTING TOOL FREE. PULLED OUT OF ROPE SOCKET. BLED DOWN WELL RD WIRELINE RECOVERED 110 MCF, 64 BBLS OIL, 148 BBLS H2O.
	12:30	14:30	2.00	WLWORK	42		N		WAIT ON BRAIDED LINE TRUCK.
	14:30	21:00	6.50	BL	52		N		RU BRAIDED LINE. RIH W/ 3 1/8" OVERSHOT W/ 1 7/16" GRAPPLE, OIL JARS, SPANGE BARS AND WEIGHT BARS, ENGAGED FISH PRESSURED UP CSG TO 1900 PSI. JARRED ON FISH. CAME FREE PULLED OUT W/ FISHING ASSEMEBLY AND FISH (WEIGHT BARS CCL AND SETTING TOOL). RD BRAIDED LINE TRUCK. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES.
5/20/2015	6:00	7:30	1.50	MIRU	28		Р		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP RIG. FILLED OUT JSA.
	7:30	8:30	1.00	MIRU	01		Р		MIRU SERVICE RIG. 200 CSIP BLED DOWN WELL.
	8:30	10:00	1.50	WOR	16		Р		ND GOAT HEAD, 5" HCR VALVE, CROSS FLOW, 5" HCR VALVE AND SPOOL. NU 5K BOP ON TOP OF 7" MANUAL FRAC VALVE.
	10:00	14:30	4.50	WOR	39		Р		RIH W/ ON OFF TOOL, 5-JTS 2 3/8 L-80 EUE TBG, X-OVER AND 253-JTS 2 7/8 L-80 EUE TBG LATCHED ONTO PKR @ 8385' TBG TALLY LD 1-JT 2 7/8, SPACED OUT TBG W/ 1-10', 1-2' X 2 7/8 N-80 EUE TBG SUBS.
	14:30	16:30	2.00	WOR	06		Р		CIRCULATE WELL WITH 360-BBLS PKR FLUID.

CENTRAL DIVISION

Date	Time Start-End		Duratio	Phase	Activit	Sub	ОР	MD from	Operation
			n (h-s)		У		Code	(ft)	
			(hr)				_		
	16:30	18:30	2.00	WOR	16		P		LANDED TBG W/ 6' 2 7/8 TBG SUB UNDER HANGER W/ BPV. IN
									TBG HEAD. ND BOP REMOVED BPV. REMOVED HANGER AND 6'
									TBG SUB. LANDED TBG W/ HANGER AND BPV IN TBG HEAD. NU
									WELLHEAD. PRESSURE TEST WELLHEAD 5000 PSI. PRESSURE
									TEST FLOW BACK LINE 4000 PSI. REMOVE BPV. PUMP OUT
									PLUG @ 2900 PSI.
	18:30	19:30	1.00	RDMO	02		Р		OPENED WELL 1800 PSI ON 14/64 CHOKE. RD RIG.
	19:30	19:30	0.00	FB	19		Р		2100 PSI ON 14/64 CHOKE. RECOVERED 43 MCF, 140 BBLS OIL
									AND 185 BBLS H20.

CENTRAL DIVISION

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